

83N174/6

OSTA Commonality Analysis

Task 7

Final Report - Volume II



OA0/TR-81/0019

OSTA COMMONALITY ANALYSIS
FINAL REPORT

Volume II

June 1, 1981

Prepared for
Office of Space and Terrestrial Applications
National Aeronautics and Space Administration
Headquarters
Washington, D.C. 20546

In Response to
Task Order No. 7
Contract No. NASW-3358

Prepared by
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Agriculture, Forestry and Rangeland Applications
Data Sheets

DISCIPLINE TITLE - AGRICULTURE
 APPLICATION TITLE - ABIOTIC STRESSES ON CROPS
 SUBAPPLICATION TITLE - AIR POLLUTION-OZONE
 TREE - 1 1 1.3 3.1 1

PARAMETER	REFER	DES ACCUR	BASED ACCUR	ACCUR UNITS	LOW HORIZ RESOL	HIGH HORIZ RESOL	HORIZ RES UNITS	LOW VERT RESOL	HIGH VERT RESOL	VERT RESOL UNITS	FRESHNESS
COLOR, TONAL PATTERNS	A-48				.5	5	M				1 WK
LEAF MOISTURE CONTENT	A-48				5	0	M				1 WK
LEAF REFLECTIVITY	A-48				1	10	M				1 WK
VEGETATIVE CONDITION	A-48				1.	10	M				1 WK

DISCIPLINE TITLE - AGRICULTURE
 APPLICATION TITLE - ABIOTIC STRESSES ON CROPS
 SUBAPPLICATION TITLE - AIR POLLUTION-OZONE
 TREE - 1.1.1.3.3.1.1

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
COLOR, TONAL PATTERNS	4 HR		LOCAL	LATE SPRING-SUMMER	LEAF COLOR L-0
LEAF MOISTURE CONTENT	4 HR			LATE SPRING-SUMMER	OZONE DAMAGE L-0.
LEAF REFLECTIVITY	4 HR		LOCAL	LATE SPRING-SUMMER	OZONE DAMAGE L-0
VEGETATIVE CONDITION	4 HR		LOCAL	LATE SPRING-SUMMER	OZONE DAMAGE L-0.

DISCIPLINE TITLE - AGRICULTURE
 APPLICATION TITLE - ABIOTIC STRESSES ON CROPS
 SUBAPPLICATION TITLE - AIR POLLUTION-SO2
 TREE - 1 1. 1. 3. 3. 1 2

PARAMETER	REFER.	DES. ACCUR.	BASED ACCUR	ACCUR UNITS	LOW HORIZ RESOL	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL.	VERT RESOL UNITS	FRESHNESS
ABIOTIC STRESS EXTENT	A-74	90.		%	1.	5	M				MON
ABIOTIC STRESS EXTENT	A-65				1	5.	M				WK
COLOR, TONAL PATTERNS	A-74	95.		%	.5	5.	M				MON
COLOR, TONAL PATTERNS	A-65				1.	5.	M				WK
PLANT DENSITY	A-74	95.		%	1	5	M				MON
PLANT TYPE	A-74	90.		%	.5	5.	M				MON
PLANT TYPE	A-65				.2	1.	M				WK
VEGETATIVE CONDITION	A-74	90		%	1.	5.	M				MON
VEGETATIVE PATTERNS	A-74	95.		%	1.	5.	M				MON
VEGETATIVE PATTERNS	A-65				.5	2.	M				WK

DISCIPLINE TITLE - AGRICULTURE
 APPLICATION TITLE - ABIOTIC STRESSES ON CROPS
 SUBAPPLICATION TITLE - AIR POLLUTION-SO2
 TREE - 1. 1. 1. 3. 3. 1. 2

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
ABIOTIC STRESS EXTENT	YR		LOCAL	AUGUST-MIDDAY	L-0.
ABIOTIC STRESS EXTENT			LOCAL	MID TO LATE SUMMER	502 EXTENT. MUST LOCATE SOURCE L-0.
COLOR, TONAL PATTERNS	YR		LOCAL	AUGUST-MIDDAY	LEAF COLOR-TONAL PAT L- 0.
COLOR, TONAL PATTERNS			LOCAL	MID TO LATE SUMMER	LEAF COLOR L-0.
PLANT DENSITY	YR		LOCAL	AUGUST-MIDDAY	TREE CROWN DENSITY L-0
PLANT TYPE	YR		LOCAL	AUGUST-MIDDAY	VEG. COVER-TRE TYPE L-0.
PLANT TYPE			LOCAL	MID TO LATE SUMMER	CROP TYPES L-0
VEGETATIVE CONDITION	YR		LOCAL	AUGUST-MIDDAY	ANCILLARY DATA
VEGETATIVE PATTERNS			LOCAL	AUGUST-MIDDAY	METEOROLOGICAL-FOR SO2 L-0.
VEGETATIVE PATTERNS	YR		LOCAL	MID TO LATE SUMMER	L-0.

DISCIPLINE TITLE - AGRICULTURE
 APPLICATION TITLE - ABIOTIC STRESSES ON FORESTS
 SUBAPPLICATION TITLE - BURNT AREA/FIRE RISK
 TREE - 1 2. 1 3 3. 2.

PARAMETER	REFER	DES ACCUR.	BASED ACCUR.	ACCUR. UNITS	LOW HORIZ RESOL	HIGH HORIZ RESOL	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL	VERT RESOL UNITS	FRESHNESS
ABIOTIC STRESS EXTENT	A-72	90	75	%	5.	5	M				1 MON
COLOR, TONAL PATTERNS	A-72	90.	80.	%	3.	3.	M				1 MON
COLOR, TONAL PATTERNS	A-37	95.	80.	%	25.	25.	M				2 WK
LAND COVER TYPE	A-37	95	80.	%	25.	25.	M				2 WK
LEAF AREA INDEX	A-37	95.	80.	%	10.	10	M				2 WK
PLANT DENSITY	A-72	90	80	%	5.	5.	M				1 MON
PLANT DENSITY	A-37	95.	95.	%	5	10.	M				2 WK
PLANT GROWTH STAGE	A-37	95	80	%	10	10.	M				2 WK
PLANT TYPE	A-72	90.	80	%	5	5	M				1 MON
VEGETATIVE CONDITION	A-72	90	75.	%	3	3	M				1 MON
VEGETATIVE CONDITION	A-37	95	80.	%	10	10	M				2 WK
VEGETATIVE PATTERNS	A-72	90.	80.	%	39	3.	M				1 MON

DISCIPLINE TITLE - AGRICULTURE
 APPLICATION TITLE - ABIOTIC STRESSES ON FORESTS
 SUBAPPLICATION TITLE - BURNT AREA/FIRE RISK
 TREE - 1. 2. 1. 3. 3. 2.

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
ABIOTIC STRESS EXTENT	YR		REGIONAL	MIDDAY EARLY AUTUMN	L-O.
COLOR, TONAL PATTERNS	YR		REGIONAL	MIDDAY EARLY AUTUMN	L-O.
COLOR, TONAL PATTERNS	2-4 WK		REGIONAL	SUMMER	L-O.
LAND COVER TYPE	2-4		REGIONAL	SUMMER	L-O.
LEAF AREA INDEX	2-4 WK		REGIONAL	SUMMER	L-O.
PLANT DENSITY	YR		REGIONAL	MIDDAY EARLY AUTUMN	TREE STAND L-O.
PLANT DENSITY	2-4 WK		REGIONAL	SUMMER	TREE CROWN AND FOREST L-O.
PLANT GROWTH STAGE	2-4 WK		REGIONAL	SUMMER	L-O.
PLANT TYPE	YR		REGIONAL	MIDDAY EARLY AUTUMN	FOREST L-O.
VEGETATIVE CONDITION	YR		REGIONAL	MIDDAY EARLY AUTUMN	L-O.
VEGETATIVE CONDITION	2-4 WK		REGIONAL	SUMMER	L-O.
VEGETATIVE PATTERNS	YR		REGIONAL	MIDDAY EARLY AUTUMN	L-O.

DISCIPLINE TITLE - AGRICULTURE
 APPLICATION TITLE - ABIOTIC STRESSES ON CROPS
 SUBAPPLICATION TITLE - ENVIRONMENTAL POLLUTANTS
 TREE - 1. 1. 1. 3. 3 1
 PARAMETER

PARAMETER	REFER.	DES ACCUR.	BASD ACCUR.	ACCUR UNITS	LOW HORIZ RESOL	HIGH HORIZ RESOL	HORIZ RES UNITS	LOW VERT RESOL	HIGH VERT RESOL	VERT RESOL UNITS	FRESHNESS
COLOR, TONAL PATTERNS	A-50				5	15.	M				1 WK
LEAF REFLECTIVITY	A-50				1	15	M				1 WK
VEGETATIVE CONDITION	A-50				5	10	M				1 WK
VEGETATIVE PATTERNS	A-50				1.	15.	M				1 WK

DISCIPLINE TITLE - AGRICULTURE
 APPLICATION TITLE - ABIOTIC STRESSES ON CROPS
 SUBAPPLICATION TITLE - ENVIRONMENTAL POLLUTANTS
 TREE - 1. 1. 1. 3. 3. 1

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
COLOR, TONAL PATTERNS	2/ DA		LOCAL		LEAF COLOR L-0.
LEAF REFLECTIVITY	2/ DA		LOCAL		L-0.
VEGETATIVE CONDITION	2/ DA		LOCAL		L-0.
VEGETATIVE PATTERNS	2/ DA		LOCAL		ANOMALY DETECTION L-0.

DISCIPLINE TITLE - AGRICULTURE
 APPLICATION TITLE - ABIOTIC STRESSES ON CROPS
 SUBAPPLICATION TITLE - FLOOD
 TREE - 1. 1. 1. 3. 3 2 2
 PARAMETER REFER

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 UNITS
 FRESHNESS

DRAINAGE PATTERNS	A-69	90.	%	1	100	M				MON
LAND COVER TYPE	A-69	90	%	5.	100	M				MON
PLANT TYPE	A-69	90	%	5	100.	M				MON
SLOPE, RELIEF	A-69	90.	%	25	100.	M				MON
TERRAIN TYPE	A-69	90.	%	100	25	M				MON
VEGETATIVE CONDITION	A-69	90	%	1	100.	M				MON
VEGETATIVE PATTERNS	A-69	90	%	5.	100	M				MON
WATER LOCATION	A-69	90.	%	5.	100	M				MON
WETLAND EXTENT	A-69	90	%	5.	100.	M				MON

DISCIPLINE TITLE - AGRICULTURE
 APPLICATION TITLE - ABIOTIC STRESSES ON CROPS
 SUBAPPLICATION TITLE - FLOOD
 TREE - 1. 1 1. 3. 3. 2. 2

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
DRAINAGE PATTERNS	YR		REGIONAL/NATIONAL		L-O.
LAND COVER TYPE	YR		REGIONAL/NATIONAL		L-O.
PLANT TYPE	YR		REGIONAL/NATIONAL		VEG COVER TYPE L-O.
SLOPE, RELIEF	YR		REGIONAL/NATIONAL		L-O.
TERRAIN TYPE	YR		REGIONAL/NATIONAL		L-O.
VEGETATIVE CONDITION	YR		REGIONAL/NATIONAL		L-O.
VEGETATIVE PATTERNS	VARIES		REGIONAL/NATIONAL		L-O.
WATER LOCATION	VARIES		REGIONAL/NATIONAL		L-O.
WETLAND EXTENT	YR		REGIONAL/NATIONAL		L-O.

DISCIPLINE TITLE - AGRICULTURE
 APPLICATION TITLE - ABIOTIC STRESSES ON FORESTS
 SUBAPPLICATION TITLE - FLOOD/INUNDATION DAMAGE
 TREE - 1. 2 1. 3. 3. 1

PARAMETER	REFER.	DES. ACCUR.	BASD ACCUR	ACCUR. UNITS	LOW HORIZ RESOL.	HIGH HORIZ RESOL	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL.	VERT RESOL UNITS	FRESHNESS
ABIOTIC STRESS EXTENT	A-73	85.		%	1.	10.	M				1 MON
COLOR, TONAL PATTERNS	A-73	90.		%	1.	1.	M				1 MON
PLANT DENSITY	A-73	90.		%	1.	1.	M				1 MON
PLANT GROWTH STAGE	A-73	85.		%	1.	1.	M				1 MON
PLANT TYPE	A-73	90.		%	1.	1.	M				1 MON
SLOPE, RELIEF	A-73	90.		%	5.	5.	M				AM OR PM
VEGETATIVE CONDITION	A-73	85.		%	2.	2.	M				1 MON

DISCIPLINE TITLE - AGRICULTURE
 APPLICATION TITLE - ABIOTIC STRESSES ON FORESTS
 SUBAPPLICATION TITLE - FLOOD/INUNDATION DAMAGE
 TREE - 1.2 1.3.3.1

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
ABIOTIC STRESS EXTENT	2 MON-YR		LOCAL	MIDDAY-MIDSUMMER	L-O
COLOR, TONAL PATTERNS	POST EVENT, WK		LOCAL	MIDDAY-MIDSUMMER	L-O.
PLANT DENSITY	2 MON-YR		LOCAL	MIDDAY-MIDSUMMER	TREE CROWN L-O
PLANT GROWTH STAGE	2 MON-YR		LOCAL	MIDDAY-MIDSUMMER	L-O
PLANT TYPE	2 MON-YR		LOCAL	MIDDAY-MIDSUMMER	FOREST L-O.
SLOPE, RELIEF	1-2 MON		LOCAL		L-O FR-EARLY SPRING/FALL
VEGETATIVE CONDITION	2 MON-YR		LOCAL	MIDDAY-MIDSUMMER	L-O.

DISCIPLINE TITLE - AGRICULTURE
 APPLICATION TITLE - ABIOTIC STRESSES ON CROPS
 SUBAPPLICATION TITLE - IRRIGATION NEEDS
 TREE - 1 1 1.3.3.2 3

PARAMETER	REFER.	DES ACCUR.	BASED ACCUR	ACCUR. UNITS	LOW HORIZ RESOL.	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL.	VERT RESOL UNITS	FRESHNESS
DRAINAGE PATTERNS	A-69	90		%	1.	100.	M				MON
LAND COVER TYPE	A-69	90		%	5.	100.	M				MON
PLANT TYPE	A-69	90		%	5.	100.	M				MON
SLOPE, RELIEF	A-69	90.		%	25	100.	M				MON
TERRAIN TYPE	A-69	90.		%	25	100.	M				MON
VEGETATIVE CONDITION	A-69	90.		%	1.	100	M				MON
VEGETATIVE PATTERNS	A-69	90.		%	5.	100	M				MON
WATER LOCATION	A-69	90		%	5	100	M				MON
WETLAND EXTENT	A-69	90		%	5	100	M				MON

DISCIPLINE TITLE - AGRICULTURE
 APPLICATION TITLE - ABIOTIC STRESSES ON CROPS
 SUBAPPLICATION TITLE - IRRIGATION NEEDS
 TREE - 1. 1. 1. 3. 3. 2. 3

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
DRAINAGE PATTERNS	YR		REGIONAL/NATIONAL		L-O.
LAND COVER TYPE	YR		REGIONAL/NAIONAL		L-O.
PLANT TYPE	YR		REGIONAL/NATIONAL		VEG. COVER TYPE L-O
SLOPE, RELIEF	YR		REGIONAL/NATIONAL		L-O.
TERRAIN TYPE	YR		REGIONAL/NATIONAL		L-O.
VEGETATIVE CONDITION	YR		REGIONAL/NATIONAL		L-O.
VEGETATIVE PATTERNS	VARIES		REGIONAL/NATIONAL		L-O.
WATER LOCATION	VARIES		REGIONAL/NATIONAL		L-O.
WETLAND EXTENT	YR		REGIONAL/NATIONAL		L-O.

DISCIPLINE TITLE - AGRICULTURE
 APPLICATION TITLE - ABIOTIC STRESSES ON CROPS
 SUBAPPLICATION TITLE - MOISTURE STRESSES
 TREE - 1.1.1.3.3.2

PARAMETER	REFER.	DES ACCUR	BASED ACCUR.	ACCUR. UNITS	LOW HORIZ RESOL	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL.	VERT RESOL UNITS	FRESHNESS
DRAINAGE PATTERNS	A-69	90.		%	1	100	M				MON
LAND COVER TYPE	A-69	90		%	5.	100.	M				MON
PLANT TYPE	A-69	90		%	5	100.	M				MON
SLOPE, RELIEF	A-69	90		%	25.	100	M				MON
TERRAIN TYPE	A-69	90		%	25.	100.	M				MON
VEGETATIVE CONDITION	A-69	90.		%	1.	100.	M				MON
VEGETATIVE PATTERNS	A-69	90.		%	5.	100	M				MON
WATER LOCATION	A-69	90.		%	5.	100	M				VARIES
WETLAND EXTENT	A-69	90		%	5.	100.	M				MON

DISCIPLINE TITLE - AGRICULTURE
 APPLICATION TITLE - ABIOTIC STRESSES ON CROPS
 SUBAPPLICATION TITLE - MOISTURE STRESSES
 TREE - 1 1.1 3.3.2

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
DRAINAGE PATTERNS	YR		REGIONAL/NATIONAL		L-0
LAND COVER TYPE	YR		REGIONAL/NATIONAL		L-0
PLANT TYPE	YR		REGIONAL/NATIONAL		VEG. COVER TYPE L-0.
SLOPE, RELIEF	YR		REGIONAL/NATIONAL		L-0.
TERRAIN TYPE	YR		REGIONAL/NATIONAL		L-0.
VEGETATIVE CONDITION	YR		REGIONAL/NATIONAL		L-0
VEGETATIVE PATTERNS	VARIES		REGIONAL/NATIONAL		L-0
WATER LOCATION	MON		REGIONAL/NATIONAL		L-0.
WETLAND EXTENT	YR		REGIONAL/NATIONAL		L-0

DISCIPLINE TITLE - AGRICULTURE
 APPLICATION TITLE - ABIOTIC STRESSES ON CROPS
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 1. 1. 1. 3. 3

PARAMETER	REFER.	DES ACCUR.	BASD ACCUR.	ACCUR. UNITS	LOW HORIZ RESOL.	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL.	VERT RESOL UNITS	FRESHNESS
COLOR, TONAL PATTERNS	A-64				1.	5	M				1 WK
PLANT GROWTH STAGE	A-64				1	5	M				1 WK
PLANT TYPE	A-64			M	1	5					1 WK
TERRAIN TYPE	A-64				2.	5	M				1 WK
VEGETATIVE CONDITION	A-64				1.	5	M				1 WK
VEGETATIVE PATTERNS	A-64				1.	5	M				1 WK

DISCIPLINE TITLE - AGRICULTURE
 APPLICATION TITLE - ABIOTIC STRESSES ON CROPS
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 1 1.1.3 3

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
COLOR, TONAL PATTERNS	1 WK		LOCAL		LEAF COLOR L-0
PLANT GROWTH STAGE	1 WK		LOCAL		L-0
PLANT TYPE	1 WK		LOCAL		L-0
TERRAIN TYPE	1 WK		LOCAL		L-0.
VEGETATIVE CONDITION	1 WK		LOCAL		L-0.
VEGETATIVE PATTERNS	1 WK		LOCAL		L-0

DISCIPLINE TITLE - AGRICULTURE
 APPLICATION TITLE - ACREAGE INVENTORY
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 1. 1. 1. 4. 1

PARAMETER	REFER	DES ACCUR.	BASED ACCUR	ACCUR. UNITS	LOW HORIZ RESOL.	HIGH HORIZ RESOL	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL.	VERT RESOL UNITS	FRESHNESS
LAND COVER TYPE	A-80				30.	100.	M				
PLANT AREAL EXTENT	A-7	90		%	30.	100.	M				
PLANT AREAL EXTENT	A-8	95.	80.	%	10	50.	M				3 WK
PLANT TYPE	A-7	90.	85.	%	30	100.	M				1-2 MON
PLANT TYPE	A-80				30.	100.	M				
PLANT TYPE	A-8	95.	80.	%	10.	50	M				3 WK
WATER LOCATION	A-80		80.	%	30	100.	M				
WETLAND EXTENT	A-80				30.	100	M				

DISCIPLINE TITLE - AGRICULTURE
 APPLICATION TITLE - ACREAGE INVENTORY
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 1.1.1.4.1

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
LAND COVER TYPE					5 CLASSES L-0.
PLANT AREAL EXTENT					LARGE, HOMOGENOUS FIELDS L-0.
PLANT AREAL EXTENT	1 MON		REGIONAL		L-0.
PLANT TYPE	1 YR		LOCAL/REGIONAL	LATE SPRING/EARLY SUMMER	CROPS: 2 TYPES L-0.
PLANT TYPE					CROPS, FOREST TYPES, GRASSLANDS, BRUSH L-0.
PLANT TYPE	1 MON		REGIONAL		CROPS: 2 TYPES L-0.
WATER LOCATION					L-0.
WETLAND EXTENT					L-0.

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DISCIPLINE TITLE - AGRICULTURE
APPLICATION TITLE - AGRONOMY MANAGEMENT
SUBAPPLICATION TITLE - NO TITLE
TREE - 1.1.1.4.4

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[illegible]

DISCIPLINE TITLE - AGRICULTURE
 APPLICATION TITLE - AGRONOMY MANAGEMENT
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 1.1.1.4.4

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
ABIOTIC STRESS	1-12 MON				
CHEMICAL PESTICIDE CONCEN					
CHEMICAL PESTICIDE EXTENT					
CHEMICAL PESTICIDE TYPE					
CULTIVATION EXTENT	3 YR				
CULTIVATION INTENSITY	3 YR				
CULTIVATION METHOD	3 YR				
LAND ALBEDO	ONCE				
LAND SURFACE TEMP	ONCE				
PLANT DENSITY	1-12 MON				
PLANT DISEASE EXTENT	1-12 MON				
PLANT DISEASE TYPE	1-12 MON				
PLANT GROWTH RATE	1-12 MON				
PLANT GROWTH STAGE					
PLANT GROWTH STAGE	1-12 MON				
PRECIP AMOUNT					
PRECIP EXTENT					
PRECIP RATE					
PRECIP TYPE					
PRECIP WATER PROF					
ROCK TYPE	1 YR				
SALINITY	3 MON-5 YR				SOIL
SOIL CHEMISTRY	3 MON-5 YR				
SOIL GRANULARITY	3 MON-5 YR				
SOIL ORGANIC CONTENT	3 MON-5 YR				
SOIL PERMEABILITY	3 MON-5 YR				
SOIL POROSITY	3 MON-5 YR				
SOIL PROPERTIES	3 MON-5 YR				MECHANICAL
SOIL/ROCK COMPOSITION	3 MON-5 YR				
SURFACE AIR TEMP					
SURFACE ROUGHNESS	ONCE				
TOPSOIL DEPTH	3 MON-5 YR				
VEGETATIVE DAMAGE EXTENT	1-12 MON				
VEGETATIVE DAMAGE TYPE	1-12 MON				
VEGETATIVE EXTENT	1-12 MON				
VEGETATIVE TYPE	1-12 MON				
VERT TEMP PROF					LAND TEMP
VERT WIND CONVECT DUCTS LOC					
VERT WIND CONVECT DUCTS SIZE					
VERT WIND PROF AMP					
VERT WIND PROF DIR					

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DISCIPLINE TITLE - AGRICULTURE
APPLICATION TITLE - AGRONOMY RESEARCH
SUBAPPLICATION TITLE - NO TITLE
TREE - 1 1 1.5

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[illegible]

DISCIPLINE TITLE - AGRICULTURE
 APPLICATION TITLE - AGRONOMY RESEARCH
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 1.1.1.5

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
ABIOTIC STRESS	3 MON				WATER STRESS
ABIOTIC STRESS EXTENT					
CULTIVATION EXTENT	4 MON				
CULTIVATION INTENSITY	4 MON				
CULTIVATION METHOD	4 MON				
LAND ALBEDO	ONCE				
LAND SURFACE TEMP	ONCE				
PLANT DENSITY	1 MON-1 YR				
PLANT DISEASE EXTENT					
PLANT DISEASE TYPE					
PLANT GROWTH RATE	3 MON				
PLANT GROWTH STAGE					
PLANT GROWTH STAGE	1 MON-1 YR				
PRECIP AMOUNT					
PRECIP EXTENT					
PRECIP RATE					
PRECIP TYPE					
PRECIP WATER PROF					
SURFACE AIR TEMP					
VEGETATIVE DAMAGE EXTENT	4 MON				
VEGETATIVE DAMAGE TYPE	4 MON				
VEGETATIVE EXTENT	1 MON-50 YR				
VEGETATIVE TYPE	1 MON-50 YR				
VERT TEMP PROF					LAND TEMP
VERT WIND CONVECT DUCTS LOC					
VERT WIND CONVECT DUCTS SIZE					
VERT WIND PROF AMP					
VERT WIND PROF DIR					

DISCIPLINE TITLE - AGRICULTURE
 APPLICATION TITLE - CROP INSECT DAMAGE
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 1. 1. 1. 3. 2

PARAMETER	REFER	DES. ACCUR	BASED ACCUR	ACCUR. UNITS	LOW HORIZ RESOL.	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL.	VERT RESOL UNITS	FRESHNESS
COLOR, TONAL PATTERNS	A-40	95		%	1.	10.	M				2 WK
INFESTATION EXTENT	A-40	90.		%	1.	5.	M				2 WK
LAND COVER TYPE	A-40	90.		%	10.	1.	M				2 WK
LEAF AREA INDEX	A-40	90		%	. 1	1	M				2 WK
PLANT DENSITY	A-40	95.		%	1	5.					2 WK
VEGETATIVE CONDITION	A-40	90		%	. 5	5	M				1 DA

DISCIPLINE TITLE - AGRICULTURE
 APPLICATION TITLE - CROP INSECT DAMAGE
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 1.1.1.3.2

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
COLOR, TONAL PATTERNS	2 WK		LOCAL OR REGGIONAL	MIDDAY ALL YR	L-O.
INFESTATION EXTENT	2 WK		LOCAL OR REGIONAL	MIDDAY ALL YR	L-O.
LAND COVER TYPE	2 WK		LOCAL OR REGIONAL	MIDDAY ALL YR	SUBDIVIDED CITRUS, BRUSH, HOMESITES, CROPS, CANALS
LEAF AREA INDEX	2 WK		LOCAL OR REGIONAL	MIDDAY ALL YR	L-O.
PLANT DENSITY	2 WK		LOCAL OR REGIONAL	MIDDAY ALL YR	L-O.
VEGETATIVE CONDITION	2 WK		LOCAL OR REGIONAL	MIDDAY ALL YR	L-O.

DISCIPLINE TITLE - AGRICULTURE
 APPLICATION TITLE - FOREST CLASSIFICATIONS
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 1 2.1

PARAMETER	REFER	DES ACCUR.	BASED ACCUR	ACCUR. UNITS	LOW HORIZ RESOL.	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL.	VERT RESOL UNITS	FRESHNESS
COLOR, TONAL PATTERNS	A-35	95.		%	10	10.	M				MON
LAND COVER TYPE	A-1	80.		%	30	30.	M				3 MON
PLANT DENSITY	A-35	95.		%	10.	10.	M				MON
PLANT GROWTH STAGE	A-2	85.	60.	%	30.	30.	M				
PLANT GROWTH STAGE	A-35	95.		%	10.	10.	M				MON
PLANT TYPE	A-2	85.	60	%	30.	30.	M				
PLANT TYPE	A-1	90.	70.	%	30	30.	M				3 MON
PLANT TYPE	A-35	95		%	10	10.	M				MON
SOIL TYPE	A-1	90.		%	30	30.	M				3 MON
TERTIAN TYPE	A-1	90		%	30.	30.	M				3 MON
VEGETATIVE CONDITION	A-2	85.	60	%	30.	30.	M				
VEGETATIVE CONDITION	A-35	95		%	10.	10	M				MON
VEGETATIVE PATTERNS	A-2	85.	65	%	30.	30	M				
VEGETATIVE PATTERNS	A-1	90.	70.	%	30	30	M				3 MON
VEGETATIVE PATTERNS	A-35	95.		%	10	10.	M				MON

DISCIPLINE TITLE - AGRICULTURE
 APPLICATION TITLE - FOREST CLASSIFICATIONS
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 1.2.1

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
COLOR, TONAL PATTERNS	YR		REGIONAL	LATE FALL-EARLY SPRING	L-0
LAND COVER TYPE	YR		LOCAL	SPRING	L-0
PLANT DENSITY	YR		REGIONAL	LATE FALL-EARLY SPRING	FOREST L-0
PLANT GROWTH STAGE			REGIONAL		L-0.
PLANT GROWTH STAGE	YR		REGIONAL	LATE FALL-EARLY SPRING	L-0.
PLANT TYPE			REGIONAL		FOREST L-0.
PLANT TYPE	YR		LOCAL	SPRING	FOREST L-0
PLANT TYPE	YR		REGIONAL	LATE FALL-EARLY SPRING	1-FOREST 5-CLASSES L-0.
SOIL TYPE	YR		LOCAL	SPRING	L-0.
TERTIAN TYPE	YR		LOCAL	SPRING	L-0.
VEGETATIVE CONDITION			REGIONAL		L-0
VEGETATIVE CONDITION	YR		REGIONAL	LATE FALL-EARLY SPRING	L-0.
VEGETATIVE PATTERNS			REGIONAL		L-0.
VEGETATIVE PATTERNS	YR		LOCAL	SPRING	L-0.
VEGETATIVE PATTERNS	YR		REGIONAL	LATE FALL-EARLY SPRING	L-0.

DISCIPLINE TITLE - AGRICULTURE
 APPLICATION TITLE - FOREST COVER TYPE MAPPING
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 1 2. 1 1

PARAMETER	REFER.	DES ACCUR.	BASD ACCUR.	ACCUR. UNITS	LOW HORIZ RESOL.	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL.	VERT RESOL UNITS	FRESHNESS
LAND COVER TYPE	A-15	95	85.	%	80.	80.	M				MON
PLANT DENSITY	A-15	95	85.	%	80	80	M				WK
VEGETATIVE COVER TYPE	A-15	95.	85	%	80.	80	M				MON

DISCIPLINE TITLE - AGRICULTURE
APPLICATION TITLE - FOREST COVER TYPE MAPPING
SUBAPPLICATION TITLE - NO TITLE
TREE - 1 2. 1. 1

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
LAND COVER TYPE	5 YR		REGIONAL		
PLANT DENSITY	5 YR		REGIONAL		
VEGETATIVE COVER TYPE	5 YR		REGIONAL		TREE STAND

DISCIPLINE TITLE - AGRICULTURE
 APPLICATION TITLE - FOREST INSECT DAMAGE
 SUBAPPLICATION TITLE - BARK BEETLES
 TREE - 1. 2. 1. 3. 2. 2

PARAMETER	REFER.	DES ACCUR.	BASED ACCUR	ACCUR UNITS	LOW HORIZ RESOL.	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL.	VERT RESOL UNITS	FRESHNESS
INFESTATION EXTENT	A-63	75.		%	5.	5	M				WK
INFESTATION EXTENT	A-52				5	5.	M				5 DA
PLANT DENSITY	A-63	95		%	5	5.	M				WK
PLANT TYPE	A-63	90.		%	5.	5.	M				WK
TERRAIN TYPE	A-52				20	20	M				5 DA
VEGETATIVE CONDITION	A-63	85.		%	5.	5	M				WK
VEGETATIVE CONDITION	A-52				5	5	M				5 DA
VEGETATIVE PATTERNS	A-63	95		%	5.	5	M				WK

DISCIPLINE TITLE - AGRICULTURE
 APPLICATION TITLE - FOREST INSECT DAMAGE
 SUBAPPLICATION TITLE - BARK BEETLES
 TREE - 1 2. 1. 3. 2. 2

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
INFESTATION EXTENT	YR		LOCAL/REGIONAL	LATE SUMMER (AUG)	L-0
INFESTATION EXTENT			REGIONAL		SOUTHERN PINE BEETLE L-0
PLANT DENSITY	YR		LOCAL/REGIONAL	LATE SUMMER (AUG)	TREE STAND L-0
PLANT TYPE	YR		LOCAL/REGIONAL	LATE SUMMER (AUG)	HOMOGENOUS FOREST TYPE L-0.
TERRAIN TYPE			REGIONAL		L-0
VEGETATIVE CONDITION	YR		LOCAL/REGIONAL	LATE SUMMER (AUG)	L-0.
VEGETATIVE CONDITION			REGIONAL		L-0.
VEGETATIVE PATTERNS	YR		LOCAL/REGIONAL	LATE SUMMER (AUG)	L-0.

DISCIPLINE TITLE - AGRICULTURE
 APPLICATION TITLE - FOREST COVER TYPE MAPPING
 SUBAPPLICATION TITLE - CLEAR CUT DELINIATIONS
 TREE - 1 2 1. 1. 0. 2

PARAMETER	REFER.	DES ACCUR.	BASED ACCUR.	ACCUR UNITS	LOW HORIZ RESOL.	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL.	VERT RESOL UNITS	FRESHNESS
LAND COVER TYPE	A-B1	80	75	%	30	30	ACR				3 DA
PLANT DENSITY	A-34	95	80.		100.	100.	M				MON
PLANT TYPE	A-B1	90.	80.	%	30	30	ACR				3 DA
VEGETATIVE PATTERNS	A-34	95.	80.	%	100	100.	M				MON

DISCIPLINE TITLE - AGRICULTURE
 APPLICATION TITLE - FOREST COVER TYPE MAPPING
 SUBAPPLICATION TITLE - CLEAR CUT DELINIATIONS
 TREE - 1.2.1.1.0.2

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
LAND COVER TYPE	6 MON		60 ACRES	SPRING-SUMMER	L-O.
PLANT DENSITY	YR		REGIONAL	LATE SUMMER	TREE STAND L-O.
PLANT TYPE	6 MON		6M ACRES	SPRING-SUMMER	TREE L-O.
VEGETATIVE PATTERNS	YR		REGIONAL	LATE SUMMER	L-O.

DISCIPLINE TITLE - AGRICULTURE
 APPLICATION TITLE - FOREST DISEASES
 SUBAPPLICATION TITLE - DUTCH ELM DISEASE
 TREE - 1. 2. 1. 3. 1. 1
 PARAMETER

REFER.	DES. ACCUR.	BASED ACCUR.	ACCUR UNITS	LOW HORIZ RESOL	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL	HIGH VERT RESOL	VERT RESOL UNITS	FRESHNESS
A-60	80	65	%	3	3	M				1-2 WK
A-60	75	65.	%	3.	3.	M				1-2 WK
A-60	75.	40.	%	3.	3.	M				1-2 WK
A-60	75.	40	%	3.	3.	M				1-2 WK
A-60	80	65.	%	3.	3.	M				1-2 WK

DISCIPLINE TITLE - AGRICULTURE
 APPLICATION TITLE - FOREST DISEASES
 SUBAPPLICATION TITLE - DUTCH ELM DISEASE
 TREE - 1 2.1.3.1.1

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
COLOR, TONAL PATTERNS	MON		LOCAL	SPRING LATE-SUMMER	L-O.
PLANT DENSITY	MON		LOCAL	SPRING LATE-SUMMER	TREE CROWN L-O.
PLANT DISEASE EXTENT	MON		LOCAL	SPRING LATE-SUMMER	L-O.
VEGETATIVE CONDITION	MON		LOCAL	SPRING LATE-SUMMER	L-O.
VEGETATIVE PATTERNS	MON		LOCAL	SPRING LATE-SUMMER	L-O.

DISCIPLINE TITLE - AGRICULTURE
 APPLICATION TITLE - FOREST DISEASES
 SUBAPPLICATION TITLE - DIEBACK DISEASE
 TREE - 1. 2. 1. 3. 1. 2
 PARAMETER REFER.

DES. ACCUR.	BASED ACCUR	ACCUR UNITS	LOW HORIZ RESOL	HIGH HORIZ RESOL	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL	VERT RESOL UNITS	FRESHNESS
A-58	95	%	2	2.	M				MON
A-59	90	%	1.	1	M				MON
A-59	90	%	1	1	M				MON
A-58	95.	%	5	5	M				MON
A-58	95	%	5		M				MON
A-59	90	%	1	1	M				MON
A-59	60	%	1	1	M				MON
A-58	80.	%	2.	2.	M				MON
A-59	80.	%	1.	1	M				MON
A-58	95	%	2	2.	M				MON
A-58	90	%	2	2	M				MON
A-59	80.	%	1	1	M				MON
A-58	90	%	2.	2	M				MON
A-59	90.	%	1.	1.	M				MON

DISCIPLINE TITLE - AGRICULTURE
 APPLICATION TITLE - FOREST DISEASES
 SUBAPPLICATION TITLE - DIEBACK DISEASE
 TREE - 1. 2. 1. 3. 1. 2

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
COLOR, TONAL PATTERNS	3 YR		LOCAL	FALL	LEAF COLOR L-0.
COLOR, TONAL PATTERNS	3-5 YR		LOCAL		LEAF COLOR L-0.
COLOR, TONAL PATTERNS	3-5 YR		LOCAL		INFER TEXTURE L-0.
LAND COVER TYPE	3 YR		LOCAL	FALL	L-0
PLANT DENSITY	3 YR		LOCAL	FALL	TREE STAND L-0.
PLANT DENSITY	3-5 YR		LOCAL		TREE STAND L-0.
PLANT DENSITY	3-5 YR		LOCAL		TREE CROWN L-0.
PLANT DISEASE EXTENT	3 YR		LOCAL	FALL	L-0.
PLANT DISEASE EXTENT	3-5 YR		LOCAL		L-0
PLANT TYPE	3 YR		LOCAL	FALL	L-0
VEGETATIVE CONDITION	3 YR		LOCAL	FALL	L-0.
VEGETATIVE CONDITION	3-5 YR		LOCAL		L-0.
VEGETATIVE PATTERNS	1 YR		LOCAL	FALL	L-0.
VEGETATIVE PATTERNS	3-5 YR		LOCAL		L-0.

DISCIPLINE TITLE - AGRICULTURE
 APPLICATION TITLE - FOREST INSECT DAMAGE
 SUBAPPLICATION TITLE - DEFOLIATORS
 TREE - 1. 2. 1. 3. 2. 1

PARAMETER	REFER.	DES ACCUR.	BASED ACCUR.	ACCUR UNITS	LOW HORIZ RESOL.	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL.	VERT RESOL UNITS	FRESHNESS
ASPECT	A-61	95.	80.	%	5.	5	M				WK
COLOR, TONAL PATTERNS	A-53				1.	5	M				DA
COLOR, TONAL PATTERNS	A-67	90.		%	80	80	M				MON
INFESTATION EXTENT	A-54	60		%	10.	10.	M				
INFESTATION EXTENT	A-67	85.		%	80	80	M				MON
LAND COVER TYPE	A-54	80.		%	30	30	M				
LEAF AREA INDEX	A-16				100.	100.	M				MON
LEAF AREA INDEX	A-38				25	25	M				2 WK
LEAF AREA INDEX	A-53				1.	5	M				DA
PLANT DENSITY	A-38				1.	1	M				2 WK
PLANT DENSITY	A-61	85.	60.	%	1.	1	M				WK
PLANT INFESTATION EXTENT	A-16				100	100	M				MON
PLANT INFESTATION EXTENT	A-38				25	25	M				2 WK
PLANT TYPE	A-54	80.		%	30	30	M				
PLANT TYPE	A-61	85.	60.	%	1.	1	M				WK
RADIATION BUDGET	A-61	80.	60.	%	100.	100.	M				WK
SLOPE, RELEIF	A-61	90.	75.	%	5	5.	M				WK
TERRAIN TYPE	A-61	90.	75.	%	5	5.	M				WK
VEGETATIVE CONDITION	A-16				100.	100.	M				MON
VEGETATIVE CONDITION	A-38				25	25	M				2 WK
VEGETATIVE CONDITION	A-54	70.		%	10.	10.	M				
VEGETATIVE PATTERNS	A-16				100.	100.	M				MON
VEGETATIVE PATTERNS	A-67	90.		%	80.	80.	M				MON

DISCIPLINE TITLE - AGRICULTURE
 APPLICATION TITLE - FOREST INSECT DAMAGE
 SUBAPPLICATION TITLE - DEFOLIATORS
 TREE - 1.2 1.3.2.1

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
ASPECT	3-5 YR		LOCAL		L-0
COLOR, TONAL PATTERNS	DA		LOCAL		LEAF COLOR L-0.
COLOR, TONAL PATTERNS	YR		REGIONAL	JULY	LEAF COLOR L-0.
INFESTATION EXTENT			REGIONAL		L-0.
INFESTATION EXTENT	YR		REGIONAL	JULY	L-0.
LAND COVER TYPE			REGIONAL		L-0.
LEAF AREA INDEX	2-4 WK		REGIONAL	JUNE AND JULY	L-0.
LEAF AREA INDEX	WK		REGIONAL	JUNE AND JULY	L-0.
LEAF AREA INDEX	DA		LOCAL		L-0.
PLANT DENSITY	WK		REGIONAL		L-0.
PLANT DENSITY	3-5 YR		LOCAL	JUNE/JULY	TREE CROWN L-0.
					TREE STAND AND TREE CROWN
PLANT INFESTATION EXTENT	2-4 WK		REGIONAL	JUNE AND JULY	L-0.
PLANT INFESTATION EXTENT	WK		REGIONAL	JUNE AND JULY	L-0.
PLANT TYPE			REGIONAL		L-0.
PLANT TYPE	3-5 YR		LOCAL		L-0.
RADIATION BUDGET	BI-MON		LOCAL	MORNING MIDDAY AFTERNOON	L-0.
SLOPE, RELEIF	3-5 YR		LOCAL		L-0.
TERRAIN TYPE	3-5 YR		LOCAL		L-0.
VEGETATIVE CONDITION	2-4 WK		REGIONAL	JUNE AND JULY	L-0.
VEGETATIVE CONDITION	WK		REGIONAL	JUNE AND JULY	FOREST L-0.
VEGETATIVE CONDITION			REGIONAL		L-0.
VEGETATIVE PATTERNS	BI-WK OR MON		REGIONAL	JUNE AND JULY	L-0.
VEGETATIVE PATTERNS	YR		REGIONAL	JULY	LEAF COLOR L-0.

DISCIPLINE TITLE - AGRICULTURE
 APPLICATION TITLE - CROP TYPE INVENTORY
 SUBAPPLICATION TITLE - MULTICROPS
 TREE - 1.1.1.1 1

PARAMETER	REFER.	DES ACCUR.	BASED ACCUR	ACCUR UNITS	LOW HORIZ RESOL	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL	VERT RESOL UNITS	FRESHNESS
DRAINAGE PATTERNS	A-80	95	90	%	50	100.	M				1-2 MON
LAND COVER TYPE	A-80	90	75.	%	50	100.	M				1-2 MON
LAND COVER TYPE	A-25	95.	80.	%	25	80.	M				1 MON
PLANT TYPE	A-80	90.	75.	%	50	100	M				1-2 MON
PLANT TYPE	A-42	95		%	30	100.	M				MON
PLANT TYPE	A-41	95		%	30.	100	M				1 MON
PLANT TYPE	A-25	95.	85.	%	25.	809	M				1 MON
PLANT TYPE	A-26	90.	70	%	30	100	M				1 MON
SOIL TYPE	A-42	90.		%	30.	100	M				MON

DISCIPLINE TITLE ~ AGRICULTURE
 APPLICATION TITLE ~ CROP TYPE INVENTORY
 SUBAPPLICATION TITLE ~ MULTICROPS
 TREE ~ 1.1.1.1.1

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
DRAINAGE PATTERNS	1 YR		LOCAL OR REGIONAL		L-0.
LAND COVER TYPE	1 YR		LOCAL OR REGIONAL	LATE SPRING-EARLY SUMMER	GRASSLAND, BARE SOIL, URBAN L-0.
LAND COVER TYPE	2-3 WK		REGIONAL	SUMMER	5 TYPES L-0.
PLANT TYPE	1 YR		LOCAL OR REGIONAL	LATE SPRING-EARLY SUMMER	CROP TYPE/ FOREST TYPE L- 0.
PLANT TYPE	2-3 WK		REGIONAL	SUMMER	CROP TYPE: 5 CLASSES L-0
PLANT TYPE	2-3 WK		REGIONAL	SUMMER	CROP TYPE: 3 CLASSES L-0
PLANT TYPE	2-3 WK		REGIONAL	SUMMER	CROPS: 3 CLASSES, ANCILLARY DATA L-0.
PLANT TYPE	2-3 WK		LOCAL/REGIONAL	MID-LATE SUMMER	CROPS: 4 CLASSES L-0.
SOIL TYPE	2-3 WK		REGIONAL	SPRING	CROPPING PRACTICES DATA USED L-0.

DISCIPLINE TITLE - AGRICULTURE
 APPLICATION TITLE - FOREST CONDITION MONITORING
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 1 2 1.3

PARAMETER	REFER	DES ACCUR.	BASED ACCUR	ACCUR UNITS	LOW HORIZ RESOL	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL	VERT RESOL UNITS	FRESHNESS
ABIOTIC STRESS	A-62	75	50	%	1.	1	M				WK
ABIOTIC STRESS EXTENT	A-62	75.	60.	%	1	1.	M				WK
ASPECT	A-62	95.	80	%	10	10.	7				WK
COLOR, TONAL PATTERNS	A-57	80.		%	2	2.	7				
COLOR, TONAL PATTERNS	A-71	95		%	1.	1.	M				2-3 WK
COLOR, TONAL PATTERNS	A-62	95	85.	%	1.	1.	M				WK
INFESTATION EXTENT	A-62	75.	60.	%	1.	1.	M				WK
LEAF CANOPY TEMP.	A-46				5	5	M				
PLANT DENSITY	A-57	80		%	5	5	M				
PLANT DENSITY	A-71	95.		%	5	5	M				2-3 WK
PLANT DENSITY	A-62	90	80.	%	3	3.	M				WK
PLANT DISEASE EXTENT	A-62	75.	60.	%	1	1.	M				WK
PLANT GROWTH RATE	A-57	80		%	5	5	M				
PLANT GROWTH STAGE	A-71	95		%	1.	1.	M				2-3 WK
PLANT TYPE	A-57	95		%	10.	10	M				
PLANT TYPE	A-71	95.		%	1	1.	M				2-3 WK
PLANT TYPE	A-62	85.	60.	%	1	1	M				WK
SLOPE, RELIEF	A-62	95.	75.	%	10	10	M				WK
TERRAIN TYPE	A-71	95.		%	5	5	M				2-3 WK
VEGETATIVE CONDITION	A-57	85.		%	5	5	M				
VEGETATIVE CONDITION	A-46										
VEGETATIVE CONDITION	A-71	95.		%	1.	1	M				2-3 WK
VEGETATIVE CONDITION	A-62	85.	70.	%	1.	1.	M				WK
VEGETATIVE PATTERNS	A-71	95.		%	1	1.	M				2-3 WK
VEGETATIVE PATTERNS	A-62	90.	80	%	3	3.	M				WK

DISCIPLINE TITLE - AGRICULTURE
 APPLICATION TITLE - FOREST CONDITION MONITORING
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 1.2 1.3

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
ABIOTIC STRESS	YR		LOCAL/REGIONAL		L-O
ABIOTIC STRESS EXTENT	YR		LOCAL/REGIONAL		L-O
ASPECT	YR		LOCAL/REGIONAL		L-O
COLOR, TONAL PATTERNS			REGIONAL		LEAF
COLOR, TONAL PATTERNS	YR		LOCAL	NOON/SPRING	L-O
COLOR, TONAL PATTERNS	YR		LOCAL/REGIONAL		LEAF COLOR L-O
INFESTATION EXTENT	YR		LOCAL/REGIONAL		L-O
LEAF CANOPY TEMP.					L-O
PLANT DENSITY			REGIONAL		TREE STAND L-O.
PLANT DENSITY	YR		LOCAL	NOON/SPRING	TREE STAND L-O
PLANT DENSITY	YR		LOCAL/REGIONAL		TREE STAND AND CROWN L-O
PLANT DISEASE EXTENT	YR		LOCAL/REGIONAL		L-O
PLANT GROWTH RATE			REGIONAL		L-O.
PLANT GROWTH STAGE	YR		LOCAL	NOON/SPRING	L-O.
PLANT TYPE			REGIONAL		FOREST L-O.
PLANT TYPE	YR		LOCAL	NOON/SPRING	FOREST L-O.
PLANT TYPE	YR		LOCAL/REGIONAL		L-O
SLOPE, RELIEF	YR		LOCAL/REGIONAL		L-O.
TERRAIN TYPE	YR		LOCAL	NOON/SPRING	L-O.
VEGETATIVE CONDITION			REGIONAL		L-O.
VEGETATIVE CONDITION					
VEGETATIVE CONDITION	YR		LOCAL	NOON/SPRING	L-O.
VEGETATIVE CONDITION	YR		LOCAL/REGIONAL		L-O
VEGETATIVE PATTERNS	YR		LOCAL	NOON/SPRING	L-O
VEGETATIVE PATTERNS	YR		LOCAL/REGIONAL		L-O.

DISCIPLINE TITLE - AGRICULTURE
 APPLICATION TITLE - FOREST DISEASES
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 1.2 1.3.1

PARAMETER	REFER.	DES ACCUR	BASED ACCUR.	ACCUR UNITS	LOW HORIZ RESOL.	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL.	VERT RESOL UNITS	FRESHNESS
COLOR, TONAL PATTERNS	A-57	90.		%	2.	2	M				
PLANT DENSITY	A-57	90.		%	5	5	M				
PLANT GROWTH RATE	A-57	80.		%	5	5	M				
PLANT TYPE	A-57	95		%	10	10.	M				
VEGETATIVE CONDITION	A-57	85		%	5	5	M				

DISCIPLINE TITLE - AGRICULTURE
APPLICATION TITLE - FOREST DISEASES
SUBAPPLICATION TITLE - NO TITLE
TREE - 1.2.1.3.1

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
COLOR, TONAL PATTERNS			REGIONAL		LEAF COLOR L-0.
PLANT DENSITY			REGIONAL		TREE STAND L-0.
PLANT GROWTH RATE			REGIONAL		L-0.
PLANT TYPE			REGIONAL		FOREST L-0.
VEGETATIVE CONDITION			REGIONAL		L-0.

DISCIPLINE TITLE - AGRICULTURE
 APPLICATION TITLE - FOREST INSECT DAMAGE
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 1. 2. 1. 3. 2

PARAMETER	REFER.	DES ACCUR.	BASD ACCUR.	ACCUR. UNITS	LOW HORIZ RESOL.	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL.	VERT RESOL UNITS	FRESHNESS
COLOR, TONAL PATTERNS	A-82	90.		%	2.	2.	M				
COLOR, TONAL PATTERNS	A-70	90.		%	1.	1.	M				1-2 WK
INFESTATION EXTENT	A-82	80.		%	2.	2.	M				
INFESTATION EXTENT	A-70	90.		%	5.	5.	M				1-2 WK
PLANT DENSITY	A-82	85.		%	2.	2.	M				
PLANT DENSITY	A-70	90.		%	1.	5.	M				1-2 WK
PLANT TYPE	A-70	90.		%	10.	10.	M				1-2 WK
TERRAIN TYPE	A-70	90.		%	10.	10.	M				MON
VEGETATIVE CONDITION	A-82	85.		%	2.	2.	M				
VEGETATIVE CONDITION	A-70	85.		%	1.	1.	M				1-2 WK
VEGETATIVE PATTERNS	A-70	90.		%	5.	5.	M				1-2 WK

DISCIPLINE TITLE - AGRICULTURE
 APPLICATION TITLE - FOREST INSECT DAMAGE
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 1.2.1.3.2

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
COLOR, TONAL PATTERNS	YR			FALL	LEAF COLOR L-O.
COLOR, TONAL PATTERNS	YR		REGIONAL	MID-JULY TO LATE- AUGUST	LEAF COLOR L-O.
INFESTATION EXTENT	YR		LOCAL	FALL	L-O.
INFESTATION EXTENT	YR		REGIONAL	MID JULY TO LATE- AUGUST	L-O.
PLANT DENSITY	YR		LOCAL	FALL	TREE CROWN L-O.
PLANT DENSITY	YR		REGIONAL	MID-JULY TO LATE- AUGUST	TREE STAND AND TREE CROWN L-O.
PLANT TYPE	YR		REGIONAL	MID-JULY TO LATE AUGUST	FOREST L-O.
TERRAIN TYPE	YR		REGIONAL	MID-JULY TO LATE- AUGUST	L-O.
VEGETATIVE CONDITION	YR		LOCAL	FALL	L-O.
VEGETATIVE CONDITION	YR		REGIONAL	MID-JULY TO LATE- AUGUST	L-O.
VEGETATIVE PATTERNS	YR		REGIONAL	MID-JULY TO LATE- AUGUST	L-O.

DISCIPLINE TITLE - AGRICULTURE
APPLICATION TITLE - FOREST MANAGEMENT
SUBAPPLICATION TITLE - NO TITLE
TREE - 1.2.1.4.3

[illegible]

DISCIPLINE TITLE - AGRICULTURE
 APPLICATION TITLE - FOREST MANAGEMENT
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 1 2.1.4.3

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
ABIOTIC STRESS	3 MON-5 YR				WATER STRESS
CULTIVATION EXTENT	3 YR				
CULTIVATION INTENSITY	3 YR				
CULTIVATION METHOD	3 YR				
LAND ALBEDO	ONCE				
LAND SURFACE TEMP	ONCE				
PLANT DENSITY	4 MON				
PLANT DISEASE EXTENT	4 MON				
PLANT DISEASE TYPE	4 MON				
PLANT GROWTH RATE	4 MON				
PLANT GROWTH STAGE					
PLANT GROWTH STAGE	4 MON				
PRECIP EXTENT					
PRECIP RATE					
PRECIP TYPE					
PRECIP WATER PROF					
ROCK TYPE	1 YR				
SALINITY	3 MON-5 YR				SOIL
SOIL CHEMISTRY	3 MON-5 YR				
SOIL GRANULARITY	3 MON-5 YR				
SOIL MOISTURE	4 MON/AS NEEDED				
SOIL ORGANIC CONTENT	3 MON-5 YR				
SOIL PERMEABILITY	3 MON-5 YR				
SOIL POROSITY	3 MON-5 YR				
SOIL/ROCK COMPOSITION	3 MON-5 YR				
SURFACE AIR TEMP					
SURFACE ROUGHNESS	ONCE				
TOPSOIL DEPTH	3 MON-5 YR				
VEGETATIVE DAMAGE EXTENT	4 MO/AS NEEDED				
VEGETATIVE DAMAGE TYPE	4 MON/AS NEEDED				
VEGETATIVE EXTENT	1 MON-5 YR				
VEGETATIVE TYPE	1 MON-5 YR				
VERT TEMP PROF					LAND
VERT WIND CONVECT DUCTS LOC					
VERT WIND CONVECT DUCTS SIZE					
VERT WIND PROF AMP					
VERT WIND PROF DIR					

DISCIPLINE TITLE - AGRICULTURE
APPLICATION TITLE - FOREST RESEARCH
SUBAPPLICATION TITLE - NO TITLE
TREE - 1.2.1.5

[illegible]

DISCIPLINE TITLE - AGRICULTURE
 APPLICATION TITLE - FOREST RESEARCH
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 1.2.1.5

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
ABIOTIC STRESS	3 MON-5 YR				PLANT WATER STRESS
CULTIVATION EXTENT	3 YR				
CULTIVATION INTENSITY	3 YR				
CULTIVATION METHOD	3 YR				
LAND ALBEDO	ONCE				
LAND SURFACE TEMP	ONCE				
PLANT DENSITY	4 MON				
PLANT DISEASE EXTENT	4 MON				
PLANT DISEASE TYPE	4 MON				
PLANT GROWTH RATE	4 MON				
PLANT GROWTH STAGE					
PLANT GROWTH STAGE	4 MON				
PRECIP AMOUNT					
PRECIP EXTENT					
PRECIP RATE					
PRECIP TYPE					
PRECIP WATER PROF					
SOIL MOISTURE	4 MON/AS NEEDED				
SURFACE AIR TEMP					
VEGETATIVE DAMAGE EXTENT	4 MON/AS NEEDED				
VEGETATIVE DAMAGE TYPE	4 MON/AS NEEDED				
VEGETATIVE EXTENT	1 MON-5 YR				
VEGETATIVE TYPE	1 MON-5 YRS				
VERT TEMP PROF					
VERT WIND CONVECT DUCTS LOC					
VERT WIND CONVECT DUCTS SIZE					
VERT WIND PROF AMP					
VERT WIND PROF DIR					

DISCIPLINE TITLE - AGRICULTURE
 APPLICATION TITLE - FOREST DISEASES
 SUBAPPLICATION TITLE - ROOT ROT DISEASE
 TREE - 1. 2. 1. 3. 1. 3
 PARAMETER REFER.

		DES. ACCUR.	BASED ACCUR	ACCUR. UNITS	LOW HORIZ RESOL.	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL.	VERT RESOL UNITS	FRESHNESS
PLANT DENSITY	A-68	80.	90.	%	1.	1	M				MON
PLANT DENSITY	A-68				1.	1	M				MON
VEGETATIVE CONDITION	A-68				1.	1.	M				MON
VEGETATIVE PATTERNS	A-68				1.	1.	M				MON

DISCIPLINE TITLE - AGRICULTURE
 APPLICATION TITLE - FOREST DISEASES
 SUBAPPLICATION TITLE - ROOT ROT DISEASE
 TREE - 1. 2. 1. 3. 1. 3

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
PLANT DENSITY	3-5 YR		LOCAL		TREE CROWN L-O.
PLANT DENSITY	YR		REGIONAL	MIDDAY-SUMMER AND FALL	TREE CROWN L-O.
VEGETATIVE CONDITION	YR		REGIONAL	MIDDAY-SUMMER AND FALL	L-O.
VEGETATIVE PATTERNS	YR		REGIONAL	MIDDAY-SUMMER AND FALL	L-O.

DISCIPLINE TITLE - AGRICULTURE
 APPLICATION TITLE - FOREST COVER TYPE MAPPING
 SUBAPPLICATION TITLE - TIMBER TYPE SEPARABILITY
 TREE - 1 2. 1. 1. 0. 1

PARAMETER	REFER	DES. ACCUR.	BASED ACCUR.	ACCUR UNITS	LOW HORIZ RESOL.	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL.	VERT RESOL UNITS	FRESHNESS
COLOR, TONAL PATTERNS	A-36	95.	85.	%	100.	100	M				MON
LAND COVER TYPE	A-15	95	85.	%	80	80	M				MON
PLANT DENSITY	A-36	95.	80.	%	100.	100	M				MON
PLANT TYPE	A-36	95	70.	%	100	100.	M				MON
PLANT TYPE	A-15	95	85.	%	80.	80.	M				MON
PLANT TYPE	A-15	95.	85	%	80.	80.	M				MON
VEGETATIVE PATTERNS	A-36	95	85	%	100	100.	M				MON

DISCIPLINE TITLE - AGRICULTURE
 APPLICATION TITLE - FOREST COVER TYPE MAPPING
 SUBAPPLICATION TITLE - TIMBER TYPE SEPARABILITY
 TREE - 1. 2. 1. 1. 0 1

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
COLOR, TONAL PATTERNS	YR		REGIONAL	WINTER-SPRING	L-0.
LAND COVER TYPE	5 YR		REGIONAL		L-0
PLANT DENSITY	YR		REGIONAL	WINTER-SPRING	FOREST STAND L-0.
PLANT TYPE	YR		REGIONAL	WINTER-SPRING	1-FOREST 5-CLASSES L-0.
PLANT TYPE	5 YR		REGIONAL		FOREST L-0.
PLANT TYPE	5 YR		REGIONAL		L-0.
VEGETATIVE PATTERNS	YR		REGIONAL	WINTER-SPRING	L-0

[illegible]

DISCIPLINE TITLE - AGRICULTURE
 APPLICATION TITLE - GRASSLANDS MANAGEMENT
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 1. 3. 1. 4 1

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
ABIOTIC STRESS	3 MON				WATER STRESS
CULTIVATION EXTENT	3 YR				
CULTIVATION INTENSITY	3 YR				
CULTIVATION METHOD	3 YR				
LAND ALBEDO	ONCE				
LAND SURFACE TEMP	ONCE				
PLANT DENSITY	3 MON				
PLANT DISEASE EXTENT					
PLANT DISEASE TYPE					
PLANT GROWTH STAGE					
PLANT GROWTH STAGE	3 MON				
PRECIP AMOUNT					
PRECIP EXTENT					
PRECIP RATE					
PRECIP TYPE					
ROCK TYPE	1 YR				
SALINITY	3 MON-5 YR				SOIL
SOIL CHEMISTRY	3 MON-5 YR				
SOIL GRANULARITY	3 MON-5 YR				
SOIL MOISTURE					
SOIL ORGANIC CONTENT	3 MON-5 YR				
SOIL PERMEABILITY	3 MON-5 YR				
SOIL POROSITY	3 MON-5 YR				
SOIL/ROCK COMPOSITION	3 MON-5 YR				
SURFACE AIR TEMP					
SURFACE ROUGHNESS	ONCE				
TOPSOIL DEPTH	3 MON-5 YR				
VEGETATIVE DAMAGE EXTENT	3 MON				
VEGETATIVE DAMAGE TYPE	3 MON				
VEGETATIVE EXTENT	1 MON-5 YR				
VEGETATIVE TYPE	1 MON-5 YR				
VERT LAND TEMP PROF					
VERT WIND CONVECT DUCTS LOC					
VERT WIND CONVECT DUCTS SIZE					
VERT WIND PROF AMP					
VERT WIND PROF DIR					

DISCIPLINE TITLE - AGRICULTURE
APPLICATION TITLE - GRAZING LANDS MANAGEMENT
SUBAPPLICATION TITLE - NO TITLE
TREE - 1 3 1.5 1

[illegible]

DISCIPLINE TITLE - AGRICULTURE
 APPLICATION TITLE - GRAZING LANDS MANAGEMENT
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 1.3.1.5 1

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
ABIOTIC STRESS		3 MON			PLANT WATER
CULTIVATION EXTENT	3 YR				
CULTIVATION INTENSITY	3 YR				
CULTIVATION METHOD	3 YR				
LAND ALBEDO	ONCE				
LAND SURFACE TEMP	ONCE				
PLANT DENSITY	3 MON				
PLANT DISEASE EXTENT					
PLANT DISEASE TYPE					
PLANT GROWTH RATE	3 MON				
PLANT GROWTH STAGE					
PLANT GROWTH STAGE	3 MON				
PRECIP AMOUNT					
PRECIP EXTENT					
PRECIP RATE					
PRECIP TYPE					
PRECIP WATER PROF					
ROCK TYPE	1 YR				
SALINITY	3 MON-5 YR				SOIL
SOIL CHEMISTRY	3 MON-5 YR				
SOIL GRANULARITY	3 MON-5 YR				
SOIL MOISTURE					
SOIL ORGANIC CONTENT	3 MON-5 YR				
SOIL PERMEABILITY	3 MON-5 YR				
SOIL POROSITY	3 MON-5 YR				
SOIL/ROCK COMPOSITION	3 MON-5 YR				
SURFACE AIR TEMP					
SURFACE ROUGHNESS	ONCE				
TOPSOIL DEPTH	3 MON-5 YR				
VEGETATIVE DAMAGE EXTENT	1 MON-5 YR				
VEGETATIVE DAMAGE TYPE	1 MON-5 YR				
VEGETATIVE EXTENT	1 MON-5 YR				
VEGETATIVE TYPE	1 MON-5 YR				
VERT LAND TEMP PROF					
VERT WIND CONVECT DUCTS LOC					
VERT WIND CONVECT DUCTS SIZE					
VERT WIND PROF AMP					
VERT WIND PROF DIR					

DISCIPLINE TITLE - AGRICULTURE
 APPLICATION TITLE - IRRIGATION MANAGEMENT
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 1. 1 2. 2. 3

PARAMETER	REFER.	DES ACCUR.	BASED ACCUR.	ACCUR UNITS	LOW HORIZ RESOL	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL.	VERT RESOL UNITS	FRESHNESS
COLOR, TONAL PATTERNS	A-14	100	90.	%	5.	5	M				MON
LAND ALBEDO	A-14	95	80	%	5	5.	M				MON
NON-SOIL RESIDUALS	A-14	85.	60	%	5	5.	M				MON
PLANT TYPE	A-10	90.		%	60.	60.	ACR				MON
SOIL MOISTURE	A-10	50		%	60.	60.	ACR				MON
SOIL MOISTURE	A-14	80.	60.	%	5	5.	M				MON
SOIL TYPE	A-10	90		%	62.	62.	ACR				MON
THERMAL PROPERTIES	A-10	80.		%	62.		ACR				MON

DISCIPLINE TITLE - AGRICULTURE
 APPLICATION TITLE - IRRIGATION MANAGEMENT
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 1.1 2.2 3

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
COLOR, TONAL PATTERNS	YR		LOCAL	SPRING	L-0 , SOIL COLOR
LAND ALBEDO	YR		LOCAL	SPRING	L-0.
NON-SOIL RESIDUALS	YR		LOCAL	SPRING	L-0.
PLANT TYPE	1 YR		LOCAL	SPRING	L-0.
SOIL MOISTURE			LOCAL	SPRING	L-0
SOIL MOISTURE	LOCAL			SPRING	L-0.
SOIL TYPE	5 YR	GROWING SEASON	LOCAL	EARLY SPRING	L-0.
THERMAL PROPERTIES		GROWING SEASON	LOCAL	SPRING DA/NI	L-0. , SOIL SURFACE

DISCIPLINE TITLE - AGRICULTURE
 APPLICATION TITLE - PHENOLOGY MODELING
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 1. 1. 1. 2 2
 PARAMETER

	REFER.	DES ACCUR.	BASD ACCUR.	ACCUR UNITS	LOW HORIZ RESOL.	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL.	VERT RESOL UNITS	FRESHNESS
PLANT GROWTH STAGE	A-9	90.	75.	%	10	50.	M				2 WK
PLANT TYPE	A-9	90.	80.	%	10.	50.	M				2 WK

DISCIPLINE TITLE - AGRICULTURE
APPLICATION TITLE - PHENOLOGY MODELING
SUBAPPLICATION TITLE - NO TITLE
TREE - 1. 1. 1. 2. 2
PARAMETER

FREQUENCY
OF UPDATE

DURATION

AREAL
COVERAGE

OBSERVATION
TIME

COMMENTS

PLANT GROWTH STAGE
PLANT TYPE

WK

LOCAL

FALL, EARLY SPRING

20 STAGES L-0
CROP TYPE L-0.

DISCIPLINE TITLE - AGRICULTURE
 APPLICATION TITLE - RANGELAND CLASSIFICATIONS
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 1.3.1

PARAMETER	REFER.	DES ACCUR.	BASED ACCUR	ACCUR UNITS	LOW HORIZ RESOL	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL.	VERT RESOL UNITS	FRESHNESS
ASPECT	A-29	90.	80	%	50	50	M				2 WK
COLOR, TONAL PATTERNS	A-29	90.	80.	%	50	50	M				1 WK
PLANT AREAL EXTENT	A-29	95.	80.	%	50	50	M				2 WK
PLANT DENSITY	A-29	90	80.	%	50.	50.	M				2 WK
PLANT GROWTH STAGE	A-29	90.	80.	%	50.	50.	M				2 WK
SLOPE, RELIEF	A-29	95.	80.	%	50.	50.	M				2 WK

DISCIPLINE TITLE - AGRICULTURE
 APPLICATION TITLE - RANGELAND CLASSIFICATIONS
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 1.3.1

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
ASPECT	MON		REGIONAL		L-O.
COLOR, TONAL PATTERNS	MON		REGIONAL		L-O.
PLANT AREAL EXTENT	MON		REGIONAL		L-O.
PLANT DENSITY	MON		REGIONAL		L-O.
PLANT GROWTH STAGE	MON		REGIONAL		L-O.
SLOPE, RELIEF	MON		REGIONAL		BOTTOMLAND, MIDSLOPE, UPLAND

DISCIPLINE TITLE - AGRICULTURE
 APPLICATION TITLE - RANGELAND PRODUCTIVITY MODELING
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 1.3.1.3.1
 PARAMETER

	REFER	DES. ACCUR	BASED ACCUR.	ACCUR UNITS	LOW HORIZ RESOL	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL	HIGH VERT RESOL.	VERT RESOL UNITS	FRESHNESS
BIOMASS	A-27	90	80	%	50	50	M				7-10 DA
COLOR, TONAL PATTERNS	A-27	95	85.	%	50	50.	M				7-10 DA
LAND COVER TYPE	A-28	95.	80.	%	100.	100.	M				7-10 DA
PLANT AREAL EXTENT	A-28	95.	80.	%	100.	100	M				7-10 DA
PLANT DENSITY	A-27	90.	80.	%	50.	50.	M				7-10 DA
PLANT DENSITY	A-28	95.	80.	%	100	100	M				7-10 DA
PLANT TYPE	A-27	90	80.	%	50	50.	M				7-10 DA
WATER EXTENT	A-28	95	80.	%	100.	100.	M				7-10 DA
WETLAND EXTENT	A-28	95.	80.	%	100.	100.	M				7-10 DA

DISCIPLINE TITLE - AGRICULTURE
 APPLICATION TITLE - RANGELAND PRODUCTIVITY MODELING
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 1 3.1.3 1

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
BIOMASS	MON		REGIONAL		L-O.
COLOR, TONAL PATTERNS	MON		REGIONAL		L-O.
LAND COVER TYPE	WK		REGIONAL		RANGELAND OR OTHER L-O.
PLANT AREAL EXTENT	2 WK		REGIONAL		L-O.
PLANT DENSITY	MON		REGIONAL		L-O.
PLANT DENSITY	2 WK		REGIONAL		L-O.
PLANT TYPE	MON		REGIONAL		L-O.
WATER EXTENT	2 WK		REGIONAL		L-O. , SURFACE WATER
WETLAND EXTENT	2 WK		REGIONAL		L-O.

DISCIPLINE TITLE - AGRICULTURE
 APPLICATION TITLE - SPECTRAL SEPARABILITY OF CROPS
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 1. 1. 1. 1. 2
 PARAMETER

REFER.	DES. ACCUR.	BASED ACCUR.	ACCUR. UNITS	LOW HORIZ RESOL.	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL.	VERT RESOL UNITS	FRESHNESS
A-23	95.	80.	%	25.	100.	M				2-4 WK
A-23	95.	80.	%	25.	100.	M				2-4 WK
A-3										
A-23	90.	75.	%	25.	100.	M				2-4 WK
A-23	90.	70.	%	25.	100.	M				2-4 WK
A-3										
A-23	90.	80.	%	25.	100.	M				2-4 WK
A-3										
A-23	95.	80.	%	25.	100.	M				2-4 WK
A-23	95.	80.	%	25.	100.	M				2-4 WK
A-23	95.	80.	%	25.	100.	M				2-4 WK

DISCIPLINE TITLE - AGRICULTURE
 APPLICATION TITLE - SPECTRAL SEPARABILITY OF CROPS
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 1 1. 1. 1. 2

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
COLOR, TONAL PATTERNS	1-3 WK		REGIONAL	LATE AM-NOON, THRU GROWING SEASON	SOIL COLOR, BRIGHTNESS, PLANT COLOR L-O.
LEAF REFLECTIVITY	1-3 WK		REGIONAL	LATE AM-NOON	L-O.
LEAF REFLECTIVITY	1-3 WK		REGIONAL	LATE AM-NOON	L-O.
PLANT DENSITY	1-3 WK		REGIONAL	LATE AM-NOON	LEAF AREA INDEX, PLANT AREAL EXTENT L-O.
PLANT GROWTH STAGE	1-3 WK		REGIONAL	LATE AM-MIDDAY, THRU GROWING SEASON	L-O.
PLANT GROWTH STAGE	1-3 WK		REGIONAL	LATE AM-NOON	CROPS: MULTI&SPECIFIC L-O.
PLANT TYPE	1-3 WK		REGIONAL	AM	L-O.
PLANT TYPE	1-3 WK	GROWING SEASON	REGIONAL	LATE AM-NOON	ANCIL. RAINFALL DATA L-O.
SOIL MOISTURE	1-3 WK		REGIONAL	LATE AM-NOON	L-O.
VEGETATIVE CONDITION	1-3 WK		REGIONAL	LATE AM-NOON	L-O.
VEGETATIVE PATTERNS	1-3 WK		REGIONAL	LATE AM-NOON	L-O.

DISCIPLINE TITLE - AGRICULTURE
 APPLICATION TITLE - SOIL MAPPING
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 1. 1. 2. 1

PARAMETER	REFER.	DES ACCUR.	BASED ACCUR	ACCUR UNITS	LOW HORIZ RESOL.	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL.	VERT RESOL UNITS	FRESHNESS
COLOR, TONAL PATTERNS	A-13	100.	90.	%	5.	5	M				MON
COLOR, TONAL PATTERNS	A-32	95.		%	100	100.	M				MO
DRAINAGE PATTERNS	A-13	80	80	%	5	-15	M				MON
DRAINAGE PATTERNS	A-32	95		%	100.	100.	M				MON
EROSION LEVEL	A-13	70.		%	5.	15.	M				MON
EROSION LEVEL	A-11				80.	80.	M				WK
LAND ALBEDO	A-11				80.	80.	M				MON
LAND COVER TYPE	A-80	85.	80.	%	50.	50	M				1-2 MON
NON-SOIL RESIDUALS	A-13	80		%	5.	15.	M				MON
PLANT DENSITY	A-12										
PLANT GROWTH STAGE	A-32	90.		%	100.	100.	M				MON
SLOPE, RELIEF	A-11				80.	80.	M				MON
SOIL CONDITION	A-12	90.	70.	%	80.	80.	M				MON
SOIL MOISTURE	A-13	80.		%	5.	15.	M				MON
SOIL PROPERTIES	A-13	80.		%	5.	15.	M				MON
SOIL TYPE	A-11				80.	80.	M				MON
SOIL TYPE	A-32	90.		%	100.	100.	M				MON
SOIL TYPE	A-12	90.	60.	%	80.	80.	M				MON
TERRAIN TYPE	A-32	95.		%	100.	100.	M				MON
VEGETATIVE COVER TYPE	A-13	80.		%	5.	15.	M				MON
VEGETATIVE COVER TYPE	A-11				80.	90.	M				WK
VEGETATIVE COVER TYPE	A-12	90.	80.	%	80.	80.	M				MON
VEGETATIVE PATTERNS	A-32	95.		%	100.	100.	M				MON

DISCIPLINE TITLE - AGRICULTURE
 APPLICATION TITLE - SOIL MAPPING
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 1.1.2.1

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
COLOR, TONAL PATTERNS	YR		LOCAL	SPRING	L-O
COLOR, TONAL PATTERNS	5 YR		REGIONAL	SPRING	L-O.
DRAINAGE PATTERNS	YR		LOCAL	SPRING	L-O
DRAINAGE PATTERNS	5 YR		REGIONAL	SPRING	L-O
EROSION LEVEL	YR		LOCAL	SPRING	L-O
EROSION LEVEL	YR		LOCAL	SPRING	L-O L/S.
LAND ALBEDO	YR		LOCAL	SPRING	L-O L/S.
LAND COVER TYPE	1-2 YR		LOCAL, REGIONAL		4-CLASSES L-O.
NON-SOIL RESIDUALS	YR		LOCAL	SPRING	L-O
PLANT DENSITY					L-O.
PLANT GROWTH STAGE	5 YR		REGIONAL	SPRING-FALL	L-O.
SLOPE, RELIEF	YR		LOCAL	SPRING	L-O L/S.
SOIL CONDITION	5-10 DA		LOCAL	SPRING	L-O.
SOIL MOISTURE	YR		LOCAL	SPRING	L-O
SOIL PROPERTIES	YR		LOCAL	SPRING	PHYSICAL-CHEM L-O.
SOIL TYPE			LOCAL	SPRING	L-O L/S.
SOIL TYPE	5 YR		REGIONAL	SPRING	L-O.
SOIL TYPE	5-10 DA		LOCAL	SPRING	L-O
TERRAIN TYPE	5 YR		REGIONAL	SPRING-FALL	L-O.
VEGETATIVE COVER TYPE	YR		LOCAL	SPRING	L-O
VEGETATIVE COVER TYPE	YR		LOCAL	SPRING	L-O L/S
VEGETATIVE COVER TYPE	5-10 DA		LOCAL	SPRING	L-O.
VEGETATIVE PATTERNS	5 YR		REGIONAL	SPRING FALL	L-O

DISCIPLINE TITLE - AGRICULTURE
 APPLICATION TITLE - SOIL MOISTURE MAPPING
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 1. 1. 2. 2. 1

PARAMETER	REFER.	DES ACCUR.	BASED ACCUR.	ACCUR. UNITS	LOW HORIZ RESOL.	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL.	VERT RESOL UNITS	FRESHNESS
COLOR, TONAL PATTERNS	A-14	100.	90	%	5	5.	M				MON
LAND ALBEDO	A-14	95.	80.	%	5.	5.	M				MON
NON-SOIL RESIDUALS	A-14	85.	60.	%	5	5.	M				MON
PLANT TYPE	1-10	90.		%	60	60.	ACR				MON
SOIL MOISTURE	A-10	50.		%	60	600.	ACR				MON
SOIL MOISTURE	A-14	80.	60.	%	5	5.	M				MON
SOIL TYPE	A-10	90.		%	62	62	ACR				MON
THERMAL PROPERTIES	A-10	80.		%	62.	62.	ACR				MON

DISCIPLINE TITLE - AGRICULTURE
 APPLICATION TITLE - SOIL MOISTURE MAPPING
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 1 1. 2. 2. 1

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
COLOR, TONAL PATTERNS	YR		LOCAL	SPRING	SOIL COLOR, L-O
LAND ALBEDO	YR		LOCAL	SPRING	L-O.
NON-SOIL RESIDUALS	YR		LOCAL	SPRING	L-O
PLANT TYPE	1 YR		LOCAL	SPRING	L-O
SOIL MOISTURE			LOCAL	SPRING	L-O.
SOIL MOISTURE	YR		LOCAL	SPRING	L-O
SOIL TYPE	1-5 YR	GROWING SEASON	LOCAL	EARLY SPRING	L-O.
THERMAL PROPERTIES		GROWING SEASON	LOCAL	SPRING DA/NI	L-O., SURFACE

DISCIPLINE TITLE - AGRICULTURE
 APPLICATION TITLE - SOIL EROSION MODELING
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 1 1.2.4.2

PARAMETER	REFER.	DES. ACCUR.	BASD ACCUR.	ACCUR UNITS	LOW HORIZ RESOL.	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL.	VERT RESOL UNITS	FRESHNESS
EROSION LEVEL	A-11				80.	80.	M				WK
EROSION LEVEL	A-4										
LAND ALBEDO	A-11				80.	80.	M				MON
LAND COVER TYPE	A-4										
LAND COVER TYPE	A-80	85	80.	%	50	50.	M				1-2 MON
PLANT DENSITY	A-80	85.	80.	%	50.	50	M				1-2 MON
PRECIP AMOUNT	A-4										
PRECIP RATE	A-4										
PRECIP TYPE	A-4										
SLOPE, RELIEF	A-80				50	50.	M				1-2 MON
SLOPE, RELIEF	A-11				80.	80.	M				MON
SLOPE, RELIEF	A-4										
SOIL TYPE	A-80				50.	50.	M				1-2 MON
SOIL TYPE	A-11				80	80.	M				MON
SOIL TYPE	A-4										
VEGETATIVE COVER TYPE	A-11				80	80.	M				WK

DISCIPLINE TITLE - AGRICULTURE
 APPLICATION TITLE - SOIL EROSION MODELING
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 1. 1. 2. 4. 2

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
EROSION LEVEL	YR		LOCAL	SPRING	L-0 L/S
EROSION LEVEL			LOCAL		L-0.
LAND ALBEDO	YR		LOCAL	SPRING	L-0. L/S.
LAND COVER TYPE			LOCAL		L-0.
LAND COVER TYPE	1-2 YR		LOCAL, REGIONAL		L-0.
PLANT DENSITY	1-2 YR		LOCAL, REGIONAL		FORESTS L-0
PRECIP AMOUNT			LOCAL		L-0
PRECIP RATE			LOCAL		L-0
PRECIP TYPE			LOCAL		L-0
SLOPE, RELIEF	1-2 YR		LOCAL-REGIONAL		L-0
SLOPE, RELIEF	YR		LOCAL	SPRING	L-0. L/S
SLOPE, RELIEF			LOCAL		L-0
SOIL TYPE	1-2 YR		LOCAL, REGIONAL		LENGHT/GRADIENT L-0.
SOIL TYPE			LOCAL	SPRING	L-0 L/S.
SOIL TYPE			LOCAL		L-0.
VEGETATIVE COVER TYPE	YR		LOCAL	SPRING	L-0. L/S.

DISCIPLINE TITLE - AGRICULTURE
 APPLICATION TITLE - SOIL EROSION MANAGEMENT
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 1. 1. 2. 4 3
 PARAMETER

REFER.	DES ACCUR	BASED ACCUR.	ACCUR UNITS	LOW HORIZ RESOL.	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL	HIGH VERT RESOL.	VERT RESOL UNITS	FRESHNESS
A-11				80.	80.	M				WK
A-4										
A-11				80.	80	M				MON
A-4										
A-80	85.	80.	%	50	50.	M				1-2 MON
A-80	85.	80.	%	50	50.	M				1-2 MON
A-80	85.	80.		50	50.	M				1-2 MON
A-4										
A-4										
A-80				50.	50.	M				1-2 MON
A-11				80.	80.	M				MON
A-4										
A-80				50.	50	M				1-2 MON
A-80				50.	50	M				1-2 MON
A-11				80.	80	M				MON
A-4										
A-80				50.	50	M				1-2 MON
A-11				80.	80.	M				WK

DISCIPLINE TITLE - AGRICULTURE
 APPLICATION TITLE - SOIL EROSION MANAGEMENT
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 1 1. 2. 4 3

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
EROSION LEVEL	YR		LOCAL	SPRING	L-O
EROSION LEVEL			LOCAL		L-O.
LAND ALBEDO	YR		LOCAL	SPRING	L-O.
LAND COVER TYPE			LOCAL		L-O
LAND COVER TYPE	1-2 GR		LOCAL, REGIONAL		L-O
PLANT DENSITY	1-2 YR		LOCAL, REGIONAL		FORESTS L-O
PLANT DENSITY	1-2 YR		LOCAL, REGIONAL		FOREST L-O.
PRECIP AMOUNT			LOCAL		L-O.
PRECIP RATE			LOCAL		L-O.
SLOPE, RELIEF	1-2 YR		LOCAL, REGIONAL		L-O.
SLOPE, RELIEF	YR		LOCAL	SPRING	L-O.
SLOPE, RELIEF			LOCAL		L-O.
SLOPE, RELIEF	1-2 YR		LOCAL, REGIONAL		L-O.
SOIL TYPE	1-2 YR		LOCAL, REGIONAL		L-O.
SOIL TYPE			LOCAL	SPRING	L-O.
SOIL TYPE			LOCAL		L-O.
SOIL TYPE	1-2 YR		LOCAL, REGIONAL		L-O.
VEGETATIVE COVER TYPE	YR		LOCAL	SPRING	L-O.

DISCIPLINE TITLE - AGRICULTURE
 APPLICATION TITLE - VEGETATION CLASSIFICATION
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 1.1.1

PARAMETER	REFER.	DES ACCUR.	BASED ACCUR.	ACCUR UNITS	LOW HORIZ RESOL.	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL.	VERT RESOL UNITS	FRESHNESS
ASPECT	A-39	90.		%	5.	5.	M				1 MON
DRAINAGE PATTERNS	A-39	90.		%	1	5.	M				1 MON
LAND COVER TYPE	A-80	85.	85	%	10.	80	M				1-2 MON
PLANT DENSITY	A-39	95.									
PLANT DENSITY	A-80	85.	85.	%	10.	80.	M				1-2 MON
PLANT TYPE	A-39	90.		%	1.	5	M				1 MON
SOIL TYPE	A-80				10.	80.	M				1-2 MON
VEGETATIVE CONDITION	A-39	90.			1.	5	M				1 MON
VEGETATIVE PATTERNS	A-39	95.		%	1	5.	M				1 MON
WATER LOCATION	A-39	90.		%	2.	5	M				1 MON

DISCIPLINE TITLE - AGRICULTURE
 APPLICATION TITLE - VEGETATION CLASSIFICATION
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 1. 1. 1

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
ASPECT	1 YR		LOCAL	MIDDAY	L-O.
DRAINAGE PATTERNS	1 YR		LOCAL		L-O.
LAND COVER TYPE	1-2 YR		REGIONAL		
PLANT DENSITY					
PLANT DENSITY	1-2 YR		REGIONAL		FOREST, CROP, PASTURE, BRUSH
PLANT TYPE			LOCAL	MIDDAY	L-O.
SOIL TYPE	1-2 YR		REGIONAL		
VEGETATIVE CONDITION			LOCAL	MIDDAY	L-O.
VEGETATIVE PATTERNS	1 YR		LOCAL	MIDDAY	L-O.
WATER LOCATION	1 YR		LOCAL	MIDDAY	L-O.

DISCIPLINE TITLE - AGRICULTURE
 APPLICATION TITLE - VEGETATIVE CONDITION MONITORING
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 1. 1. 1. 3

PARAMETER	REFER.	DES ACCUR.	BASD ACCUR.	ACCUR UNITS	LOW HORIZ RESOL.	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL.	VERT RESOL UNITS	FRESHNESS
COLOR, TONAL PATTERNS	A-51	85.		%	10.	100.	M				<1 DA
LAND COVER TYPE	A-45	90.		%	10.	30.	M				
LEAF REFLECTIVITY	A-45	85.		%	1.	10.	M				
LEAF REFLECTIVITY	A-51	70.		%	10.	100.	M				<1 DA
PLANT DENSITY	A-45	90.		%	10.	30.					
TERRIAN TYPE	A-45	90.		%	10.	30.	M				
VEGETATIVE CONDITION	A-45	75.		%	1.	10.	M				
VEGETATIVE CONDITION	A-51	75.		%	10.	100.	M				<1 DA

DISCIPLINE TITLE - AGRICULTURE
 APPLICATION TITLE - VEGETATIVE CONDITION MONITORING
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 1.1.1.3

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
COLOR, TONAL PATTERNS	DA		LOCAL		LEAF COLOR L-0.
LAND COVER TYPE					L-0.
LEAF REFLECTIVITY					L-0.
LEAF REFLECTIVITY	DA		LOCAL		L-0.
PLANT DENSITY					TREE STAND L-0
TERRIAN TYPE					L-0.
VEGETATIVE CONDITION					L-0.
VEGETATIVE CONDITION	DA		LOCAL		L-0.

DISCIPLINE TITLE - AGRICULTURE
 APPLICATION TITLE - YIELD MODELING
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 1.1.1.4.3

PARAMETER	REFER.	DES. ACCUR.	BASED ACCUR	ACCUR. UNITS	LOW HORIZ RESOL.	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL.	VERT RESOL UNITS	FRESHNESS
AIR TEMP	A-6				1	5.	KM				
CHLOROPHYLL	A-6	75.	50.	%	1	10.	M				1-2 WK
LAND COVER TYPE	A-80	85.	70.	%	30.	100.	M				1-2 MON
PLANT DENSITY	A-6				5.	15	M				1-2 WK
PLANT TYPE	A-80	90.	85.	%	30.	100.	M				1-2 MON
PRECIP RATE	L-6				1.	5	KM				
RELATIVE HUMIDITY	A-6				1.	5.	KM				
SOIL MOISTURE	A-6				1.	5.	KM				1-2 WK
VEGETATIVE CONDITION	A-6	75.	50.	%	1	15.	M				1-2 WK

DISCIPLINE TITLE - AGRICULTURE
 APPLICATION TITLE - YIELD MODELING
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 1 1 1.4.3

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
AIR TEMP	5-10 DA		LOCAL	NOON	L-0
CHLOROPHYLL	5-10 DA		LOCAL	NOON	L-0.
LAND COVER TYPE	1YR		LOCAL/REGIONAL	LATE SPRING-EARLY SUMMER NOON	4 STEMATIC TYPES L-0.
PLANT DENSITY	5-10 DA		LOCAL	NOON	STAND DENSITY&LEAF AREA INDEX L-0.
PLANT TYPE	1 YR		LOCAL/REGIONAL	LATE SPRING-EARLY SUMMER	CROPS: 5 TYPES, FORESTS: 2 TYPES L-0.
PRECIP RATE					
RELATIVE HUMIDITY	5-10 DA		LOCAL	NOON	L-0.
SOIL MOISTURE	5-10 DA		LOCAL		ANCILLARY DATA NEEDED ON SOILS L-0.
VEGETATIVE CONDITION	5-10 DA		LOCAL	NOON	L-0.

Water Resources Applications
Data Sheets

DISCIPLINE TITLE - WATER RESOURCES
 APPLICATION TITLE - WATER SUPPLY INVENTORY MONITORING/ASSESSMENT
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 2 1.1.1

PARAMETER	REFER	DES ACCUR	BASED ACCUR	ACCUR UNITS	LOW HORIZ RESOL.	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL	HIGH VERT RESOL	VERT RESOL UNITS	FRESHNESS
CHEMICAL POLLUTANT TYPE	L-167				50 00	50	M				
DISSOLVED NUTRIENTS	L-167				50 0	50 0	M				
DISSOLVED OXYGEN	L-167				50 0	50 0	M				
DROUGHT INDEX	L-167				01	1 0	KM				
ICE/SNOW EXTENT	L-167				50.00	50 00	M				
LAND SURFACE TEMP	L-167				50 00	50 0	M				
METAL TYPE	L-167				50 00	50 00	M				
PETROLEUM POLLUTANT EXTENT	L-167				50 00	50	M				
PH-BALANCE	L-167				50.00	50 00	M				
SURFACE WATER TEMP	L-167				50.00	100.	M				
VEGETATIVE COVER TYPE	L-167				05	1 0	KM				
WATER DEPTH	L-167				20 00	50 00	M				
WATER EXTENT	L-167				50 0	50 00	M				
WATER EXTENT	L-167										
WATER TABLE DEPTH	L-167				02	5 0	KM				
WETLAND EXTENT	L-167				20.00	50 00	M				

DISCIPLINE TITLE - WATER RESOURCES
 APPLICATION TITLE - WATER SUPPLY INVENTORY MONITORING/ASSESSMENT
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 2 1. 1. 1

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
CHEMICAL POLLUTANT TYPE	MON		WATER AREA	ALL SEASONS	
DISSOLVED NUTRIENTS	MON-YR		WATER AREA	ALL SEASONS	
DISSOLVED OXYGEN	MON		WATER AREA	ALL SEASONS	
DROUGHT INDEX	2/MON-3/YR		WATER AREA	ALL SEASONS	
ICE/SNOW EXTENT	1-4/YR		ICE/SNOW AREA	ALL SEASONS	
LAND SURFACE TEMP	ONCE			ALL SEASONS	
METAL TYPE	MON		WATER AREA	ALL SEASONS	
PETROLEUM POLLUTANT EXTENT	MON		WATER AREA	ALL SEASONS	
PH-BALANCE	YR		WATER AREA	ALL SEASONS	
SURFACE WATER TEMP	MON-YR		WATER AREA	ALL SEASONS	
VEGETATIVE COVER TYPE	1YR-5YR		VEGETATIVE EXTENT	ALL SEASONS	
WATER DEPTH	1MON-3YR		WATER AREA	ALL SEASONS	
WATER EXTENT	YR		WATER AREA	ALL SEASONS	
WATER EXTENT	2/MON-3/YR		WATER AREA	ALL SEASONS	
WATER TABLE DEPTH	4/YR-10YR		WATER AREA	ALL SEASONS	LAKE AND RIVER
WETLAND EXTENT	1MON-3YR		WATER AREA	ALL SEASONS	

DISCIPLINE TITLE - WATER RESOURCES
 APPLICATION TITLE - LAKE CLASSIFICATION RESEARCH
 SUBAPPLICATION TITLE - OLIGOTROPHIC LAKES
 TREE - 2.1 1.2 1

PARAMETER	REFER.	DES ACCUR.	BASD ACCUR	ACCUR UNITS	LOW HORIZ RESOL.	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL	HIGH VERT RESOL	VERT RESOL UNITS	FRESHNESS
DISSOLVED NUTRIENTS	L-102										
DISSOLVED NUTRIENTS	L-167				10.000	50.00	M				
OXYGEN	L-167				50.00	50	M				
OXYGEN	L-102										
PHYTOPLANKTON LEVEL	L-102										
PHYTOPLANKTON LEVEL	L-167				50.00	5 0	KM				
SEDIMENT	L-102										
SEDIMENT	L-167				0.02	2 0	KM				
VEGETATIVE PATTERNS	L-102										
VEGETATIVE PATTERNS	L-167				50.00	100.00	M				
WATER CLARITY	L-102										
WATER DEPTH	L-102										
WATER DEPTH	L-167				20.00	50.00	M				

DISCIPLINE TITLE - WATER RESOURCES
 APPLICATION TITLE - LAKE CLASSIFICATION RESEARCH
 SUBAPPLICATION TITLE - OLIGOTROPHIC LAKES
 TREE - 2 1.1.2.1

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
DISSOLVED NUTRIENTS	MON-YR			LATE AUGUST	
DISSOLVED NUTRIENTS OXYGEN	MON				
PHYTOPLANKTON LEVEL					HIGH CONCEN
PHYTOPLANKTON LEVEL	MON-YR			LATE AUGUST	
SEDIMENT					
SEDIMENT	4/YR				
VEGETATIVE PATTERNS					
VEGETATIVE PATTERNS	1-4/YR				
WATER CLARITY					CLEAR WATER
WATER DEPTH					DEEP WATER
WATER DEPTH	MON-YR				

DISCIPLINE TITLE - WATER RESOURCES
APPLICATION TITLE - LAKE CLASSIFICATION RESEARCH
SUBAPPLICATION TITLE - HARDWATER MARL LAKES
TREE - 2 1.1 2 2

[illegible]

DISCIPLINE TITLE - WATER RESOURCES
 APPLICATION TITLE - LAKE CLASSIFICATION RESEARCH
 SUBAPPLICATION TITLE - HARDWATER MARL LAKES
 TREE - 2 1.1.2.2

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
ALGAE CONCEN	MON-YR			LATE AUGUST	LIMITED ALGAE
ALGAE CONCEN					
IRON					
MACROPHYTE TYPE					
MANGANESE					
ORGANIC CARBON IN WATER					SMALL PROTIONS
PHOSPHORUS					LARGE INPUTS

DISCIPLINE TITLE - WATER RESOURCES
 APPLICATION TITLE - LAKE CLASSIFICATION RESEARCH
 SUBAPPLICATION TITLE - BOG-DYSTROPHIC LAKES
 TREE - 2 1 1. 2. 3

PARAMETER	REFER	DES ACCUR.	BASD ACCUR	ACCUR UNITS	LOW HORIZ RESOL.	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL.	VERT RESOL UNITS	FRESHNESS
DISSOLVED NUTRIENTS	L-102										
DISSOLVED NUTRIENTS	L-167										
NON-SOIL RESIDUALS	L-102				10. 00	50. 00	KM				
ORGANIC MATERIALS	L-102										
PHYTOPLANKTON LEVEL	L-102										
PHYTOPLANKTON LEVEL	L-167				. 05	5. 0	KM				
VEGETATIVE PATTERNS	L-102										
VEGETATIVE PATTERNS	L-167				. 05	2 0	KM				

DISCIPLINE TITLE - WATER RESOURCES
 APPLICATION TITLE - LAKE CLASSIFICATION RESEARCH
 SUBAPPLICATION TITLE - BOG-DYSTROPHIC LAKES
 TREE - 2 1.1.2 3

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
DISSOLVED NUTRIENTS					
DISSOLVED NUTRIENTS	MON			LATE AUGUST	SMALL INPUTS
NON-SOIL RESIDUALS					
ORGANIC MATERIALS					
PHYTOPLANKTON LEVEL	4/YR			LATE AUGUST	SMALL INPUTS
VEGETATIVE PATTERNS					
VEGETATIVE PATTERNS	1-4/YR				DOMINANT

①

[illegible]

DISCIPLINE TITLE - WATER RESOURCES
 APPLICATION TITLE - LAKE CLASSIFICATION RESEARCH
 SUBAPPLICATION TITLE - EUTROPHIC LAKES
 TREE - 2.1 1 2 4

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
ALGAE CONCEN				LATE AUGUST	LARGE INPUTS
ALGAE CONCEN	MON				
DISSOLVED NUTRIENTS				LATE AUGUST	LARGE INPUTS
DISSOLVED NUTRIENTS	MON				
MACROPHYTE DENSITY				LATE AUGUST	
ORGANIC CARBON IN WATER					HIGH INPUTS
OXYGEN					SMALL INPUTS
OXYGEN	MON				
SEDIMENT					
SEDIMENT	4/YR				
WET BIOMASS				LATE AUGUST	

DISCIPLINE TITLE - WATER RESOURCES
APPLICATION TITLE - LAKE CLASSIFICATION RESEARCH
SUBAPPLICATION TITLE - LAKE TROPIC STATES
TREE - 2.1 1.2 5
PARAMETER -

PARAMETER - 2.1 1.2 5

REFER.

DES.
ACCUR

BASED
ACCUR

ACCUR.
UNITS

LOW
HORIZ
RESOL.

HIGH
HORIZ
RESOL.

HORIZ
RES
UNITS

LOW
VERT.
RESOL.

HIGH
VERT
RESOL

VERT
RESOL
UNITS

FRESHNESS

ALGAE CONCEN	L-102
BRIGHTNESS TEMP	L-100
IRON	L-102
MACROPHYTE DENSITY	L-102
MACROPHYTE TYPE	L-102
MANGANESE	L-102
ORGANIC CARBON IN WATER	L-102
WET BIOMASS	L-102

DISCIPLINE TITLE - WATER RESOURCES
 APPLICATION TITLE - LAKE CLASSIFICATION RESEARCH
 SUBAPPLICATION TITLE - LAKE TROPIC STATES
 TREE - 2.1.1 2.5

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
ALGAE CONCEN					
BRIGHTNESS TEMP					
IRON					
MACROPHYTE DENSITY					
MACROPHYTE TYPE					
MANGANESE					
ORGANIC CARBON IN WATER					
WET BIOMASS					

DISCIPLINE TITLE - WATER RESOURCES
 APPLICATION TITLE - DAMS AND RESERVOIRS SURVEY
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 2.1.1.3

PARAMETER	REFER	DES ACCUR.	BASD ACCUR	ACCUR UNITS	LOW HORIZ RESOL.	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL.	VERT RESOL UNITS	FRESHNESS
ALGAE CONCEN	L-100										
ALGAE CONCEN	L-160				.05	5 0	M				
PHYTOPLANKTON LEVEL	L-100										
PHYTOPLANKTON LEVEL	L-160				.05	5.0	M				
POLLUTANT CONCEN	L-100										
POLLUTANT CONCEN	L-160				10.00	50 00	M				
POLLUTANT TYPE	L-100										
POLLUTANT TYPE	L-160				10.00	50.00	M				
TURBIDITY	L-100										
TURBIDITY	L-160	.01		PPM	.05	1.0	KM				
VEGETATIVE PATTERNS	L-160				.01	2.0	KM				
WATER DEPTH	L-100				20.0	20.0	M				
WATER DEPTH	L-160				20.00	50 00	M	0.1	1.0	M	
WATER EXTENT	L-100				20.00	20.0	M				1WK
WATER EXTENT	L-160				.01	1 0	KM				
ZOOPLANKTON	L-100										
ZOOPLANKTON	L-160				.05	5.0	KM				

DISCIPLINE TITLE - WATER RESOURCES
 APPLICATION TITLE - DAMS AND RESERVOIRS SURVEY
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 2.1.1 3

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
ALGAE CONCEN	DA				
ALGAE CONCEN	MON				
PHYTOPLANKTON LEVEL	DA			ALL SEASONS	
PHYTOPLANKTON LEVEL	DA				
POLLUTANT CONCEN	MON				
POLLUTANT CONCEN	MON				
POLLUTANT TYPE	MON				
POLLUTANT TYPE	MON				
TURBIDITY	4/DA				
TURBIDITY	MON				
VEGETATIVE PATTERNS	MON				
WATER DEPTH	MON	YR	GLOBAL	ALL SEASONS	
WATER DEPTH	MON				
WATER EXTENT	2/MON			ALL SEASONS	
WATER EXTENT	MON				
ZOOPLANKTON	DA			ALL SEASONS	
ZOOPLANKTON	DA				

DISCIPLINE TITLE - WATER RESOURCES
 APPLICATION TITLE - WETLANDS MAPPING AND INVENTORY
 SUBAPPLICATION TITLE - GLOBAL SERVICE SYSTEM
 TREE - 2.1.1 4.1

PARAMETER	REFER.	DES ACCUR	BASED ACCUR	ACCUR. UNITS	LOW HORIZ RESOL.	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL	VERT RESOL UNITS	FRESHNESS
DISSOLVED NUTRIENTS	L-167				50	50.	M				
LAND ALBEDO	L-167				50 0	50 0	M				
PH-BALANCE	L-167				50.	50	M				
PLANT DENSITY	L-167				50	50	M				
ROCK TYPE	L-167				20	50	M				
SALINITY	L-167				50 00	100 00	M				
SALINITY	L-167				100.	100.	M				
SATURATION OF VADOSE ZONE	L-167				50	50	M				
SEDIMENTATION RATE	L-167				2. 0	10 00	M				
SURFACE WATER TEMP	L-167				50 00	100. 00	M				
VEGETATIVE TYPE	L-167				50	50.	M				
WATER DEPTH	L-167				50	50	M				
WATER EXTENT	L-167				50	50	M				
WATER TABLE DEPTH	L-167				20	20.	M				
WETLAND EXTENT	L-167				50.	50	M				

DISCIPLINE TITLE - WATER RESOURCES
 APPLICATION TITLE - WETLANDS MAPPING AND INVENTORY
 SUBAPPLICATION TITLE - GLOBAL SERVICE SYSTEM
 TREE - 2.1.1.4.1

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
DISSOLVED NUTRIENTS	YR				
LAND ALBEDO	ONCE				
PH-BALANCE	YR				
PLANT DENSITY	3YR				
ROCK TYPE	MON-YR				CULTIVATION
SALINITY	YR				
SALINITY	YR				
SATURATION OF VADOSE ZONE	MON				
SEDIMENTATION RATE	10YR				
SURFACE WATER TEMP	MON-YR				
VEGETATIVE TYPE	MON				
WATER DEPTH	YR				
WATER EXTENT	YR				
WATER TABLE DEPTH					
WETLAND EXTENT	MON-3YR				

DISCIPLINE TITLE - WATER RESOURCES
APPLICATION TITLE - WETLANDS MAPPING AND INVENTORY
SUBAPPLICATION TITLE - COMPOSITION OF WATER
TREE - 2.1.1.4.2

[illegible]

DISCIPLINE TITLE - WATER RESOURCES
 APPLICATION TITLE - WETLANDS MAPPING AND INVENTORY
 SUBAPPLICATION TITLE - COMPOSITION OF WATER
 TREE - 2 1 1.4.2

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
ALGAE CONCEN			LOCAL		
CHLOROPHYLL			LOCAL		
COLOR, TONAL PATTERNS			LOCAL		
DISSOLVED GASSES			LOCAL		
NITROGEN			LOCAL		
PETROLUEN POLLUTANT EXTENT			LOCAL		
PHOSPHORUS			LOCAL		
SULFUR			LOCAL		
SURFACE WATER TEMP			LOCAL		
WETLAND EXTENT			LOCAL		

DISCIPLINE TITLE - WATER RESOURCES
 APPLICATION TITLE - WETLANDS MAPPING AND INVENTORY
 SUBAPPLICATION TITLE - RELATIVE WETLAND DETECTION
 TREE - 2 1.1.4.3

PARAMETER	REFER.	DES ACCUR.	BASED ACCUR.	ACCUR UNITS	LOW HORIZ RESOL	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL	VERT RESOL UNITS	FRESHNESS
CURRENT BOUNDARY	L-105										
DRAINAGE PATTERNS	L-105										
LAND COVER TYPE	L-105										
PLANT AREAL EXTENT	L-105										
PLANT TYPE	L-105										
TIDAL RANGE	L-105										
TOPOGRAPHIC FEATURES	L-105										
WETLAND EXTENT	L-105		4 0	%							

DISCIPLINE TITLE - WATER RESOURCES
APPLICATION TITLE - WETLANDS MAPPING AND INVENTORY
SUBAPPLICATION TITLE - RELATIVE WETLAND DETECTION
TREE - 2 1.1.4.3

PARAMETER

FREQUENCY
OF UPDATE

DURATION

AREAL
COVERAGE

OBSERVATION
TIME

COMMENTS

CURRENT BOUNDARY
DRAINAGE PATTERNS
LAND COVER TYPE
PLANT AREAL EXTENT
PLANT TYPE
TIDAL RANGE
TOPOGRAPHIC FEATURES
WETLAND EXTENT

LOCAL

DISCIPLINE TITLE - WATER RESOURCES
 APPLICATION TITLE - FROZEN LAKE MAPPING
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 2.1.1.5

PARAMETER	REFER.	DES. ACCUR	BASED ACCUR	ACCUR UNITS	LOW HORIZ RESOL.	HIGH HORIZ RESOL	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL	VERT RESOL UNITS	FRESHNESS
ICE AGE	L-162				2 0	20 00	KM				
ICE EXTENT	L-100				30	30	M				
ICE EXTENT	L-168				005	1 0	M				<MON
ICE LEAD ORIENTATION	L-162		100.	M	100	100	M				
ICE THICKNESS	L-100				30	30	M				
ICE THICKNESS	L-162	35		M	2 0	20 00	KM				<MON
ICE THICKNESS	L-168	1.0	10.00	M	0 1	1 0	M				
ICE/SNOW EXTENT	L-162		12.00	%	2 0	20 00	KM				

DISCIPLINE TITLE - WATER RESOURCES
 APPLICATION TITLE - FROZEN LAKE MAPPING
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 2 1 1 5

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
ICE AGE					
ICE EXTENT					
ICE EXTENT	2-4DA		LOCAL	WINTER	1, 2 MULTI
ICE LEAD ORIENTATION	10/DA				LAKE
ICE THICKNESS	MON		LOCAL	WINTER	LAKE
ICE THICKNESS	2/DA-3DA				
ICE THICKNESS	MON				
ICE/SNOW EXTENT	2/DA-3DA				

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DISCIPLINE TITLE - WATER RESOURCES
APPLICATION TITLE - PLAYA LAKE INVENTORY
SUBAPPLICATION TITLE - LANDSAT DIGITAL DATA
TREE - 2.1.1.6.1
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[illegible]

DISCIPLINE TITLE - WATER RESOURCES
 APPLICATION TITLE - PLAYA LAKE INVENTORY
 SUBAPPLICATION TITLE - LANDSAT DIGITAL DATA
 TREE - 2 1.1.6 1

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
DRAINAGE PATTERNS		YR	0-50 SQUARE MILES		
EVAPORATION RATE		YR	LOCAL	SUMMER	
GROUND WATER LOCATION		MON	35,000 SQUARE MILES		
LAND COVER TYPE	APRIL-SEPTEMBER	YR	35,000 SQUARE MILES		
PRECIP EXTENT		YR	35,000 SQUARE MILES		
PRECIP RATE		YR	LOCAL	SUMMER	
PRECIP RATE		YR	LOCAL	APRIL-SEPTEMBER WET PERIODS	
RUNOFF VOLUME		YR			
SOIL TYPE					
TOPOGRAPHIC FEATURES					
WATER EXTENT		YR	35,000 SQUARE MILES		

DISCIPLINE TITLE - WATER RESOURCES
 APPLICATION TITLE - PLAYA LAKE INVENTORY
 SUBAPPLICATION TITLE - DETECTION AND MAPPING (DAM) PACKAGE
 TREE - 2 1. 1. 6. 2

PARAMETER	REFER.	DES. ACCUR.	BASED ACCUR.	ACCUR. UNITS	LOW HORIZ RESOL	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL.	VERT RESOL UNITS	FRESHNESS
CLOUD COVER	L-113										
EROSION TYPE	L-113										
PH-BALANCE	L-113										
ROCK FORMATION	L-113										
RUNOFF RATE	L-113										
SLOPE, RELEIF	L-113		3000	FEET							
SURFACE WIND SPEED	L-113		12 00	MPH							
WATER DEPTH	L-113	100.00	900.00	FEET							

DISCIPLINE TITLE - WATER RESOURCES
 APPLICATION TITLE - PLAYA LAKE INVENTORY
 SUBAPPLICATION TITLE - DETECTION AND MAPPING (DAM) PACKAGE
 TREE - 2 1 1.6 2

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
CLOUD COVER	MN	HR		APRIL-SEPTEMBER	
EROSION TYPE		YR		WET PERIODS	
PH-BALANCE				DRY YEARS	
ROCK FORMATION					
RUNOFF RATE		YR		WET PERIODS	
SLOPE, RELIEF				APR/SEPT	ABOVE SEA-LEVEL
SURFACE WIND SPEED	YR	YR		APRIL-SEPTEMBER	AVERAGE VELOCITY
WATER DEPTH			100-900 FEET		

DISCIPLINE TITLE - WATER RESOURCES
 APPLICATION TITLE - PLAYA LAKE INVENTORY
 SUBAPPLICATION TITLE - SOUTHERN TEXAS LAKES
 TREE - 2.1 1.6 3

PARAMETER	REFER	DES ACCUR	BASED ACCUR.	ACCUR UNITS	LOW HORIZ RESOL.	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL	HIGH VERT RESOL.	VERT RESOL UNITS	FRESHNESS
WATER DEPTH	L-200				20	20	M				18DA
WATER EXTENT	L-200				20	20	M				1WK

DISCIPLINE TITLE - WATER RESOURCES
 APPLICATION TITLE - PLAYA LAKE INVENTORY
 SUBAPPLICATION TITLE - SOUTHERN TEXAS LAKES
 TREE - 2.1.1.6.3
 PARAMETER

FREQUENCY
 OF UPDATE

DURATION

AREAL
 COVERAGE

OBSERVATION
 TIME

COMMENTS

WATER DEPTH
 WATER EXTENT

18DA

YR
 YR

VARIES
 VARIES

ALL SEASONS
 ALL SEASONS

DISCIPLINE TITLE - WATER RESOURCES
 APPLICATION TITLE - RUNOFF MONITORING/ASSESSMENT
 SUBAPPLICATION TITLE - GLOBAL SERVICES SATELLITE
 TREE - 2.1.1.7.1

PARAMETER	REFER.	DES. ACCUR.	BASD ACCUR	ACCUR. UNITS	LOW HORIZ RESOL.	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL.	VERT RESOL UNITS	FRESHNESS
DRAINAGE PATTERNS	L-160				20 00	50 00	M				
PLANT TYPE	L-160	2 0	5 0	%	01	500 00					
SOIL MOISTURE	L-160	05	0.5	CC/CC	.020	500 00	KM				
SOIL PERMEABILITY	L-160				.020	5 0	KM				
SOIL TYPE	L-160				.020	5 0	KM				
SURFACE ROUGHNESS	L-160	2.0	100 00	M	.020	20.00	KM	2.0	100.00	M	
WATER CONTENT	L-160	0.5	5 0	PPM	3 0		KM				
WATER DEPTH	L-160	.01	1 0	M	20 00	50 00	M	.010	1.0	M	
WETLAND EXTENT	L-160	50.00	100.00	M	50 00	100.00	M				

DISCIPLINE TITLE - WATER RESOURCES
 APPLICATION TITLE - RUNOFF MONITORING/ASSESSMENT
 SUBAPPLICATION TITLE - GLOBAL SERVICES SATELLITE
 TREE - 2.1 1.7 1

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
DRAINAGE PATTERNS	MON-YR				
PLANT TYPE	WK-YR				
SOIL MOISTURE	HR-YR				
SOIL PERMEABILITY	4/YR-DECADE				
SOIL TYPE	4/YR-DECADE				
SURFACE ROUGHNESS	MON-YR				
WATER CONTENT	MON		1000KM(E-W) 250KM(N		
WATER DEPTH	MON-YR				
WETLAND EXTENT	MON-YR				

DISCIPLINE TITLE - WATER RESOURCES
APPLICATION TITLE - RUNOFF MONITORING/ASSESSMENT
SUBAPPLICATION TITLE - NO TITLE
TREE - 2.1.1.7.2
PARAMETER

FREQUENCY
OF UPDATE
DURING FLOOD

DURATION

AREAL
COVERAGE
VARIABLE

OBSERVATION
TIME

COMMENTS

FLOOD EXTENT
RUNOFF RATE
RUNOFF VOLUME
WATER DEPTH

PARAMETER

REFER.

DES
ACCUR.

BASED
ACCUR.

ACCUR.
UNITS

LOW
HORIZ
RESOL.

HIGH
HORIZ
RESOL

HORIZ
RES
UNITS

LOW
VERT.
RESOL.

HIGH
VERT
RESOL.

VERT
RESOL
UNITS

FRESHNESS

ANTECEDENT PRECIP INDEX
DRAINAGE PATTERNS
PLANT TYPE
PRECIP DURATION
PRECIP RATE
RUNOFF VOLUME
SOIL MOISTURE
SOIL PERMEABILITY
SOIL TYPE
SUBSURFACE SOIL MOISTURE
SURFACE ROUGHNESS
VEGETATIVE COVER TYPE
WATER CONTENT
WETLAND EXTENT

[illegible]

30DA

DISCIPLINE TITLE - WATER RESOURCES
 APPLICATION TITLE - RUNOFF MONITORING/ASSESSMENT
 SUBAPPLICATION TITLE - LANDSAT MULTISPECTRAL SCANNER
 TREE - 2.1.1.7.3

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
ANTECEDENT PRECIP INDEX	1YR	1,130 SQUARE MILES	DRY FALL	NO SNOW	
DRAINAGE PATTERNS	1YR	1,130 SQ MILES	FALL AND WINTER	NO SNOW	
PLANT TYPE	1YR	1,130 SQUARE MILES	FALL AND WINTER	NO SNOW	
PRECIP DURATION	1YR	1,130 SQUARE MILES	FALL AND WINTER	LOW AMOUNT	
PRECIP RATE	1YR	1,130 SQUARE MILES	DRY FALL		
RUNOFF VOLUME	1YR	1,130 SQUARE MILES	DRY FALL		
SOIL MOISTURE	1YR	1,130 SQUARE MILES	FALL AND WINTER	NO SNOW	
SOIL PERMEABILITY	1YR	1,130 SQ MILES	FALL AND WINTER	NO SNOW	
SOIL TYPE	1YR	1,130 SQUARE MILES	FALL AND WINTER	NO SNOW	
SUBSURFACE SOIL MOISTURE	1YR	1,130 SQUARE MILES	FALL AND WINTER	NO SNOW	
SURFACE ROUGHNESS	1YR	1,130 SQUARE MILES	DRY FALL	NO SNOW	
VEGETATIVE COVER TYPE	1YR	1,130 SQ MILES	FALL & WINTER	NO SNOW	
WATER CONTENT	1YR	1,130 SQUARE MILES	FALL AND WINTER	NO SNOW	
WETLAND EXTENT	1YR	1,130 SQUARE MILES	FALL AND WINTER	NO SNOW	

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DISCIPLINE TITLE - WATER RESOURCES
APPLICATION TITLE - RUNOFF MONITORING/ASSESSMENT
SUBAPPLICATION TITLE - LANDSAT PASSIVE MICROWAVE IMAGING
TREE - 2.1.1.7.4
PARAMETER . REFER DES BASED

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[illegible]

DISCIPLINE TITLE - WATER RESOURCES
 APPLICATION TITLE - RUNOFF MONITORING/ASSESSMENT
 SUBAPPLICATION TITLE - LANDSAT PASSIVE MICROWAVE IMAGING
 TREE - 2.1 1.7.4

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
ANTECEDENT PRECIP INDEX	1YR	1,130	SQUARE MILES	APRIL AND JUNE	
RUNOFF VOLUME	1YR	1,130	SQUARE MILES	APRIL AND JUNE	
SOIL MOISTURE	1YR	1,130	SQUARE MILES	APRIL AND JUNE	
SOIL PERMEABILITY	1YR	1,130	SQUARE MILES	APRIL AND JUNE	
SOIL TYPE	1YR	1,130	SQUARE MILES	APRIL AND JUNE	
SUBSURFACE SOIL MOISTURE	1YR	1,130	SQUARE MILES	APRIL AND JUNE	
SURFACE ROUGHNESS	1YR	1,130	SQUARE MILES	APRIL AND JUNE	
VEGETATIVE COVER TYPE	1YR	1,130	SQUARE MILES	APR & JUNE	
WATER CONTENT	1YR	1,130	SQUARE MILES	APRIL AND JUNE	
WETLAND EXTENT	1YR	1,130	SQUARE MILES	APRIL AND JUNE	

DISCIPLINE TITLE - WATER RESOURCES
 APPLICATION TITLE - RUNOFF MONITORING/ASSESSMENT
 SUBAPPLICATION TITLE - RUNOFF VOLUME FORECASTS
 TREE - 2. 1. 1. 7. 5

PARAMETER	REFER.	DES ACCUR.	BASD ACCUR.	ACCUR. UNITS	LOW HORIZ RESOL.	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL	HIGH VERT RESOL.	VERT RESOL UNITS	FRESHNESS
EVAPOTRANSPIRATION	L-81										
PRECIP AMOUNT	L-81	0 1	0 1	CM/CM2	5.	50.	KM				
PRECIP DURATION	L-81										
PRECIP RATE	L-81										
SOIL MOISTURE	L-81	0. 5	0. 5	CC/CC	2	50	KM				

DISCIPLINE TITLE - WATER RESOURCES
 APPLICATION TITLE - RUNOFF MONITORING/ASSESSMENT
 SUBAPPLICATION TITLE - RUNOFF VOLUME FORECASTS
 TREE - 2.1.1.7.5

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
EVAPOTRANSPIRATION					
PRECIP AMOUNT	MN-2/DA				L-0, L-160
PRECIP DURATION					
PRECIP RATE					
SOIL MOISTURE	HR-MON				L-0, L-160

DISCIPLINE TITLE - WATER RESOURCES
 APPLICATION TITLE - WATER TABLES AND GROUND WATER DETECTION
 SUBAPPLICATION TITLE - GLOBAL SERVICES SATELLITE
 TREE - 2 1. 2. 1. 1

PARAMETER	REFER.	DES. ACCUR.	BASED ACCUR.	ACCUR. UNITS	LOW HORIZ RESOL	HIGH HORIZ RESOL	HORIZ RES UNITS	LOW VERT RESOL	HIGH VERT RESOL	VERT RESOL UNITS	FRESHNESS
SOLAR CONSTANT	L-160	1.5	5.0	W/M2							
SURFACE ROUGHNESS	L-160	2.0	100.00	M	.020	2.0	KM	2.0	100.00	M	
TURBIDITY	L-160		.01	PPM	50.00	1.0	KM				
WATER ALBEDO	L-160	0.2	4.0	%	1.0	50.00	KM				

DISCIPLINE TITLE - WATER RESOURCES
 APPLICATION TITLE - WATER TABLES AND GROUND WATER DETECTION
 SUBAPPLICATION TITLE - GLOBAL SERVICES SATELLITE
 TREE - 2.1.2.1.1
 PARAMETER

FREQUENCY
 OF UPDATE

DURATION

AREAL
 COVERAGE

OBSERVATION
 TIME

COMMENTS

SOLAR CONSTANT
 SURFACE ROUGHNESS
 TURBIDITY
 WATER ALBEDO

DA
 MON-YR
 4/DA-MON
 HR-MON

DISCIPLINE TITLE - WATER RESOURCES
 APPLICATION TITLE - WATER TABLES AND GROUND WATER DETECTION
 SUBAPPLICATION TITLE - DEPTH PENETRATION
 TREE - 2 1.2.1.2

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
ATMOSPHERIC TRANSMITTANCE			LOCAL		
COLOR, TONAL PATTERNS			LOCAL		
EMISSIONIVITY			LOCAL		
SOLAR CONSTANT			LOCAL		
SURFACE ROUGHNESS			LOCAL		
TURBIDITY			LOCAL		
WATER ALBEDO			LOCAL		
WATER BOTTOM PROF			LOCAL		
WATER CLARITY			LOCAL		

DISCIPLINE TITLE - WATER RESOURCES
 APPLICATION TITLE - SOIL MOISTURE STUDIES
 SUBAPPLICATION TITLE - GLOBAL SERVICES SATELLITE
 TREE - 2.1.2.2.1

PARAMETER	REFER.	DES ACCUR.	BASD ACCUR	ACCUR. UNITS	LOW HORIZ RESOL.	HIGH HORIZ RESOL	HORIZ RES UNITS	LOW VERT RESOL	HIGH VERT RESOL.	VERT RESOL UNITS	FRESHNESS
CLOUD COVER	L-160	1.0	20.00	%	.5	500.00	KM				
ICE THICKNESS	L-160	10.00	30.00	CM	1.0	50.00	KM	0.1	30.00	M	
LAND ALBEDO	L-160	2.0	3.0	%	.010	500.00	KM				
LAND SURFACE TEMP	L-160	0.1	1.0	DEG C	5.0	500.00	KM				
POLLUTANT CONCEN	L-160	.19	10	M	.5	100.00	M				
SALINITY	L-160	0.005	0.05	PPT	.050	200.00	KM				
SKIN DEPTH	L-160	100.00	0.0	M	.020	5.0	KM				
SNOW DEPTH	L-160	5.0		CM	10.00	45.00	KM	5.0		CM	
SOIL MOISTURE	L-160	.5		CC/CC	.020	500.00	KM				
SOIL TYPE	L-160				.020	5.0	KM				
SURFACE ROUGHNESS	L-160	2.0	100.00	M	.020	2.0	KM	2.0	100.00	M	
TOPOGRAPHIC FEATURES	L-160	1.0	3.0	CM	.050	1.0	KM	1.0	3.0	CM	
VERT HUMIDITY PROF	L-160	1.0	30.00	%	5.0	500.00	KM	.030	5.0	KM	

DISCIPLINE TITLE - WATER RESOURCES
 APPLICATION TITLE - SOIL MOISTURE STUDIES
 SUBAPPLICATION TITLE - GLOBAL SERVICES SATELLITE
 TREE - 2 1.2.2.1

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
CLOUD COVER	DAY-MN				
ICE THICKNESS	2/DA-YR				
LAND ALBEDO	DA-ONCE				LAKE
LAND SURFACE TEMP	MN-MON				
POLLUTANT CONCEN	MON-YR				
SALINITY	HR-YR				
SKIN DEPTH	4/YR				
SNOW DEPTH	2/DA-DA				
SOIL MOISTURE	YR-HR				
SOIL TYPE	4/YR				
SURFACE ROUGHNESS	MON-YR				
TOPOGRAPHIC FEATURES					
VERT HUMIDITY PROF	MN-DA				

DISCIPLINE TITLE - WATER RESOURCES
APPLICATION TITLE - SOIL MOISTURE STUDIES
SUBAPPLICATION TITLE - OPEN OCEAN STUDY
TREE - 2.1.2.2

[illegible]

DISCIPLINE TITLE - WATER RESOURCES
 APPLICATION TITLE - SOIL MOISTURE STUDIES
 SUBAPPLICATION TITLE - OPEN OCEAN STUDY
 TREE - 2.1 2.2.2

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
CLOUD COVER	12HR-WK				
EMISSION	12HR-WK	48HR	1000 KM		
OCEAN SURFACE ROUGHNESS	12HR-WK				
OCEAN SURFACE WIND SPEED	12HR-WK	48HR	1000 KM		DUAL LINEAR POLARIZATION
SALINITY	12HR-WK	76HR	500KM		
SEA SURFACE TEMP	12HR-WK	76HR	500-1000 KM		
TOPOGRAPHIC FEATURES	YR				

DISCIPLINE TITLE - WATER RESOURCES
 APPLICATION TITLE - SOIL MOISTURE STUDIES
 SUBAPPLICATION TITLE - COSTAL ZONE STUDY
 TREE - 2.1.2 2.3

PARAMETER	REFER.	DES ACCUR.	BASD ACCUR.	ACCUR. UNITS	LOW HORIZ RESOL	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL	HIGH VERT RESOL.	VERT RESOL UNITS	FRESHNESS
ICE THICKNESS	L-109				0.5		KM				
POLLUTANT CONCEN	L-109				0.5		KM				
SALINITY	L-109			PPT	0.5	1 0	KM				
SEA SURFACE TEMP	L-109	0.5	1 0	DEGC	1.0		KM				
SNOW/WATER EQUIVALENT	L-109										
SOIL MOISTURE	L-109				5.0		KM				
SURFACE WIND SPEED	L-109	1.	2.	M/S	2.0	5 0	KM				

DISCIPLINE TITLE - WATER RESOURCES
 APPLICATION TITLE - SOIL MOISTURE STUDIES
 SUBAPPLICATION TITLE - COSTAL ZONE STUDY
 TREE - 2 1. 2. 2. 3

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
ICE THICKNESS		WK	100KM		SEVERAL NARROW BAND CHANNELS
POLLUTANT CONCEN		24HR	100KM		3 FREQUENCERS
SALINITY		72HR	100-150KM		3 FREQUEN
SEA SURFACE TEMP		48-72HR	100-150KM		3FREQUENCERS
SNOW/WATER EQUIVALENT		2WK	LOCAL 25KM		4CHANNELS
SOIL MOISTURE	2-3DA	3-5DA	LOCAL 25KM		DUAL CHANNELS
SURFACE WIND SPEED		24HR	150KM		3FREQUENCERS

[illegible]

DISCIPLINE TITLE - WATER RESOURCES
 APPLICATION TITLE - SOIL MOISTURE STUDIES
 SUBAPPLICATION TITLE - LONG TERM REMOTE SENSING PROGRAM
 TREE - 2.1.2.2.4

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
FROZEN GROUND EXTENT			LOCAL		
RELATIVE HUMIDITY			LOCAL		
SNOW DENSITY			LOCAL		
SNOW DEPTH			LOCAL		
SNOW/WATER EQUIVALENT			LOCAL		
SOIL DENSITY			LOCAL		PENETRATION DEPTH
SOIL MOISTURE			LOCAL		
SOIL TYPE			LOCAL		
SURFACE ROUGHNESS			LOCAL		
TOPOGRAPHIC FEATURES			LOCAL		PENETRATION DEPTH
VERT HUMIDITY PROF			LOCAL		

DISCIPLINE TITLE - WATER RESOURCES
APPLICATION TITLE - SOIL MOISTURE STUDIES
SUBAPPLICATION TITLE - DATA FROM SKYLAB MICROWAVE SENSORS
TREE - 2 1. 2. 2. 5

[illegible]

DISCIPLINE TITLE ~ WATER RESOURCES
 APPLICATION TITLE ~ SOIL MOISTURE STUDIES
 SUBAPPLICATION TITLE ~ DATA FROM SKYLAB MICROWAVE SENSORS
 TREE ~ 2 1. 2. 2. 5

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
ATMOSPHERIC TRANSMITTANCE					
BRIGHTNESS TEMP					S193
CLOUD COVER					S194
EMISSIONIVITY					
GALACTIC RADIATION					
NET RADIATION					
PLANT DENSITY					S194, CANOPY COVER
SKIN DEPTH					S194
SOIL MOISTURE			115KM DIAMETER		S193
SOIL TEMP			17X21KM		WEATHER STATION
VERT TEMP PROF					S194
WET BIOMASS					

DISCIPLINE TITLE - WATER RESOURCES
 APPLICATION TITLE - SOIL MOISTURE STUDIES
 SUBAPPLICATION TITLE - SOIL MOISTURE ACCOUNTING MODEL
 TREE - 2. 1. 2 2. 6

PARAMETER	REFER.	DES. ACCUR.	BASD ACCUR	ACCUR UNITS	LOW HORIZ RESOL.	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL.	VERT RESOL UNITS	FRESHNESS
DRAINAGE PATTERNS	L-81				20.	50	M				
EVAPOTRANSPIRATION	L-81	0. 1	0. 1	CM/CM2	5. 0	50	KM				
ICE/SNOW MELT	L-81										
RUNOFF VOLUME	L-81										
SOIL MOISTURE	L-81	0. 5	0. 5	CC/CC	0. 02	50.	KM				
SOIL POROSITY	L-81				0. 02	5. 0	KM				

DISCIPLINE TITLE - WATER RESOURCES
 APPLICATION TITLE - SOIL MOISTURE STUDIES
 SUBAPPLICATION TITLE - SOIL MOISTURE ACCOUNTING MODEL
 TREE - 2.1.2.2.6

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
DRAINAGE PATTERNS	MON-YR				L-160
EVAPOTRANSPIRATION	MN-2/DA				L-0, L-160
ICE/SNOW MELT					
RUNOFF VOLUME	HR-YR				L-160
SOIL MOISTURE	4/YR-DECADES				L-160
SOIL POROSITY					

DISCIPLINE TITLE - WATER RESOURCES
 APPLICATION TITLE - LAKE/RIVER ICE SURVEY
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 2.1.3.1

PARAMETER	REFER.	DES ACCUR.	BASED ACCUR.	ACCUR UNITS	LOW HORIZ RESOL.	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL	HIGH VERT RESOL.	VERT RESOL UNITS	FRESHNESS
ICE EXTENT	L-100				30.00		M				1MON
ICE THICKNESS	L-100				30.00		M				1MON

DISCIPLINE TITLE - WATER RESOURCES
APPLICATION TITLE - LAKE/RIVER ICE SURVEY
SUBAPPLICATION TITLE - NO TITLE
TREE - 2.1.3.1

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
ICE EXTENT	MON		VARIES	COLD SEASON	
ICE THICKNESS	MON		VARIES	COLD SEASON	

DISCIPLINE TITLE - WATER RESOURCES
APPLICATION TITLE - SNOWPACK PROPERTIES RESEARCH
SUBAPPLICATION TITLE - NO TITLE
TREE - 2.1.3.2

[illegible]

DISCIPLINE TITLE - WATER RESOURCES
 APPLICATION TITLE - SNOWPACK PROPERTIES RESEARCH
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 2 1.3.2

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
ICE/SNOW ALBEDO			LOCAL	ALL SEASONS	
ICE/SNOW ALBEDO	DA-MON			ALL SEASONS	
SNOW COVER			LOCAL 1.2KM2	ALL SEASONS	
SNOW COVER	3HR-YR		LOCAL 1.2KM2	ALL SEASONS	
SNOW DEPTH			LOCAL	ALL SEASONS	
SNOW DEPTH	2/DA-DA		LOCAL	ALL SEASONS	
SNOW/WATER EQUIVALENT			LOCAL	ALL SEASONS	
THERMAL PROPERTIES			LOCAL	ALL SEASONS	
TOPOGRAPHIC FEATURES			LOCAL	ALL SEASONS	
WATER DENSITY			LOCAL	ALL SEASONS	

DISCIPLINE TITLE - WATER RESOURCES
APPLICATION TITLE - SNOWMELT MONITORING
SUBAPPLICATION TITLE - NO TITLE
TREE - 2 1.3.3

[illegible]

DISCIPLINE TITLE - WATER RESOURCES
 APPLICATION TITLE - SNOWMELT MONITORING
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 2 1 3.3

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
DRAINAGE PATTERNS	YR		LOCAL	SNOWMELT SEASON	
DRAINAGE PATTERNS	MON-YR			SNOWMELT SEASON	
ICE DRIFT RATE	DA			SNOWMELT SEASON	
ICE EXTENT	MON		LOCAL	SNOWMELT SEASON	
ICE EXTENT	3HR-YR			SNOWMELT SEASON	
ICE THICKNESS			LOCAL	SNOWMELT SEASON	
ICE THICKNESS	2/DA-YR			SNOWMELT SEASON	
ICE/SNOW ALBEDO	DA-MON			SNOWMELT SEASON	
ICE/SNOW MELT	DA-WK	4YR	LOCAL	SNOWMELT SEASON	
OCEAN SURFACE WIND SPEED	DA-4/DA			SNOWMELT SEASON	
RUNOFF RATE	DA	4YR	LOCAL	SNOWMELT SEASON	
RUNOFF VOLUME	DA	4YR	LOCAL	SNOWMELT SEASON	
SEA SURFACE TEMP	HR-DA			SNOWMELT SEASON	
SNOW COVER	WK		LOCAL	SNOWMELT SEASON	
SNOW COVER	3-7DA		LOCAL	SNOWMELT SEASON	
SNOW COVER	3HR-YR			SNOWMELT SEASON	
SNOW DENSITY		4YR	LOCAL	SNOWMELT SEASON	
SNOW DEPTH			LOCAL	SNOWMELT SEASON	
SNOW DEPTH	2/DA-DA			SNOWMELT SEASON	
SNOW/WATER EQUIVALENT			LOCAL	SNOWMELT SEASON	
SOIL MOISTURE	YR-HR			SNOWMELT SEASON	
TOPOGRAPHIC FEATURES		4YR	LOCAL	SNOWMELT SEASON	
WATER FLOW RATE			LOCAL	SNOWMELT SEASON	
WATER FLOW RATE	DA-HR			SNOWMELT SEASON	
WATER FLOW RATE	MON	4YR		SNOWMELT SEASON	

MULTISECTIONAL SCANNER

DISCIPLINE TITLE - WATER RESOURCES
 APPLICATION TITLE - ANTECEDENT PRECIP INDEX DETERMINATION
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 2.1.4 1

PARAMETER	REFER.	DES. ACCUR.	BASED ACCUR	ACCUR UNITS	LOW HORIZ RESOL.	HIGH HORIZ RESOL	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL.	VERT RESOL UNITS	FRESHNESS
ATMOSPHERIC MIXING RATE	L-111										
BRIGHTNESS TEMP	L-111										
DRAINAGE PATTERNS	L-100		30 00				M				
EMISSION	L-111										
EVAPOTRANSPIRATION	L-111										
EVAPOTRANSPIRATION	L-160		10	W/M2	500.00		KM				
ICE EXTENT	L-100				30	30.	M				1MON
ICE THICKNESS	L-100				30 00	30.	M				1MON
NET RADIATION	L-111										
PRECIP RATE	L-160	0.5	10.	CM/HR	3.0	200.00	KM				
PRECIP RATE	L-111										
SKIN DEPTH	L-111		2.0	CM							
SKIN DEPTH	L-160				.020	5.0	KM				
SNOW COVER	L-100				30.00	30	M				WK
SNOW DEPTH	L-100										
SNOW/WATER EQUIVALENT	L-100										
SOIL MOISTURE	L-111										
SOIL MOISTURE	L-160	0.5		CC/CC	.020	500.00	KM				
SOIL TEMP PROF	L-111										
SURFACE AIR TEMP	L-111										
SURFACE AIR TEMP	L-160	0.1	1.0	DEGC	0.1	200.00	KM				
TOPOGRAPHIC FEATURES	L-100										
WATER CONTENT	L-111	.984	.765		1.0		KM	2.5	7.5	CM	

DISCIPLINE TITLE - WATER RESOURCES
 APPLICATION TITLE - ANTECEDENT PRECIP INDEX DETERMINATION
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 2 1.4.1

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
ATMOSPHERIC MIXING RATE		11DAYS	115KM DIAMETER	JUNE	
BRIGHTNESS TEMP		11DAYS	115KM DIAMETER	JUNE	
DRAINAGE PATTERNS	YR		LOCAL	SNOWMELT SEASON	
EMISSION		11DAYS	115KM DIAMETER	JUNE	
EVAPOTRANSPIRATION		11DA	115KM DIAMETER	JUNE	
EVAPOTRANSPIRATION	MON				
ICE EXTENT			LOCAL	SNOWMELT	
ICE THICKNESS			LOCAL	SNOWMELT	
NET RADIATION		11DAYS	115KM DIAMETER	JUNE	
PRECIP RATE	DA-MN				
PRECIP RATE		11DAYS	115KM DIAMETER	JUNE	
SKIN DEPTH		11DAYS	115KM DIAMETER	JUNE	
SKIN DEPTH	4/YR				
SNOW COVER			LOCAL	SNOWMELT SEASON	
SNOW DEPTH			LOCAL	SNOWMELT SEASON	
SNOW/WATER EQUIVALENT			LOCAL	SNOWMELT SEASON	
SOIL MOISTURE		11DAYS	115KM DIAMETER	JUNE	
SOIL MOISTURE	HR-YR				
SOIL TEMP PROF		11DAYS	115KM DIAMETER	JUNE	
SURFACE AIR TEMP		11DAYS		JUNE	
SURFACE AIR TEMP	DA-HR				
TOPOGRAPHIC FEATURES			LOCAL	SNOWMELT SEASON	
WATER CONTENT		11DAYS	115KM DIAMETER	JUNE	

DISCIPLINE TITLE - WATER RESOURCES
 APPLICATION TITLE - PRECIPITATION
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 2 1. 4. 2

PARAMETER	REFER.	DES ACCUR.	BASED ACCUR.	ACCUR UNITS	LOW HORIZ RESOL.	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL.	VERT RESOL UNITS	FRESHNESS
AIR TEMP	L-0	0 1	1 0	DEG C	100 00		M				
CLOUD COVER	L-0	1 0		%	0 5	5	KM				
CLOUD LEVEL	L-0	0 5		M	5 0	5	KM				
CLOUD PARTICLE SIZE DISTRIB.	L-0										
CLOUD TYPE	L-0										
DEW POINT TEMP	L-0	0 1	1 0	DEGC	100 00		M				
PRECIP AMOUNT	L-0	0 1		CM/CM2	5 0		CM				
PRECIP RATE	L-0	0 5	2 0	CM/HR	3 0		KM				
PRECIP WATER PROF	L-0	0 1		CM/CM2	0 5	5	KM	30 00	30	M	
VERT HUMIDITY PROF	L-0	1 0		%	5 0		KM	30 00		M	

DISCIPLINE TITLE - WATER RESOURCES
 APPLICATION TITLE - PRECIPITATION
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 2.1.4.2

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
AIR TEMP	HR		LOCAL	ALL SEASONS	
CLOUD COVER	MN		LOCAL	ALL SEASONS	
CLOUD LEVEL	3HR		LOCAL	ALL SEASONS	
CLOUD PARTICLE SIZE DISTRIB			LOCAL	ALL SEASONS	
CLOUD TYPE			LOCAL	ALL SEASONS	
DEW POINT TEMP	HR		LOCAL	ALL SEASONS	
PRECIP AMOUNT	MN		LOCAL	ALL SEASONS	
PRECIP RATE	MN		LOCAL	ALL SEASONS	
PRECIP WATER PROF	MN		LOCAL	ALL SEASONS	
VERT HUMIDITY PROF	MN		LOCAL	ALL SEASONS	

DISCIPLINE TITLE - WATER RESOURCES
 APPLICATION TITLE - EVAPOTRANSPIRATION MODELING
 SUBAPPLICATION TITLE - GLOBAL SERVICES SATELLITE
 TREE - 2 2 1.1 1

PARAMETER	REFER.	DES. ACCUR.	BASD ACCUR	ACCUR. UNITS	LOW HORIZ RESOL	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL.	VERT RESOL UNITS	FRESHNESS
ABIOTIC STRESS	L-160				75.00	150.00	M				
EVAPORATION RATE	L-160	10.00	20.00	W/CM2	.020	500.	KM				
EVAPOTRANSPIRATION	L-160		10.	W/M2	500.00		KM				
LAND ALBEDO	L-160	2.0	3.0	%	.010	500.00	KM				
LAND SURFACE TEMP	L-160	0.1	1.0	DEG C	.050	500.00	KM				
PLANT AREAL EXTENT	L-160	2.0	5.0		.010	500.00	KM				
PLANT INFESTATION EXTENT	L-160				50.00	100.00	M				
PLANT TYPE	L-167	2.0	5.0	%	.030	1.0	KM				
PRECIP WATER PROF	L-160	0.1	5.0	CM/CM2	0.5	500.00	KM	30.00	300.00	M	
SOIL MOISTURE	L-160	.05	.5	CC/CC	.20	500.00	KM				
SOIL TYPE	L-160				.020	5.0	KM				
SURFACE ROUGHNESS	L-160	2.0	100.00	M	.020	2.0	KM	2.0	100.00	M	
WATER CONTENT	L-160	.50		PPM	3.0		KM				

DISCIPLINE TITLE - WATER RESOURCES
 APPLICATION TITLE - EVAPOTRANSPIRATION MODELING
 SUBAPPLICATION TITLE - GLOBAL SERVICES SATELLITE
 TREE - 2.2 1.1.1

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
ABIOTIC STRESS	MON		LOCAL		
EVAPORATION RATE	MON		LOCAL		
EVAPOTRANSPIRATION	MON		LOCAL		
LAND ALBEDO	DA-ONCE		LOCAL		
LAND SURFACE TEMP	MN-MON		LOCAL		
PLANT AREAL EXTENT	WK-YR		LOCAL		
PLANT INFESTATION EXTENT	MON-YR		LOCAL		
PLANT TYPE	WK-YR		LOCAL		
PRECIP WATER PROF	MN-DA		LOCAL		
SOIL MOISTURE	HR-YR		LOCAL		
SOIL TYPE	4/YR-DECADE		LOCAL		
SURFACE ROUGHNESS	MON-YR		LOCAL		
WATER CONTENT	MON		LOCAL		

DISCIPLINE TITLE - WATER RESOURCES
APPLICATION TITLE - EVAPOTRANSPIRATION MODELING
SUBAPPLICATION TITLE - COLOR IR FILM BLANEY CRIDDLE EQ
TREE - 2.2.1.1.2

[illegible]

DISCIPLINE TITLE - WATER RESOURCES
 APPLICATION TITLE - EVAPOTRANSPIRATION MODELING
 SUBAPPLICATION TITLE - COLOR IR FILM BLANEY CRIDDLE EQ
 TREE - 2 2 1 1.2

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
ABIOTIC STRESS	MON		LOCAL		
EVAPORATION RATE	MON		LOCAL		
EVAPOTRANSPIRATION	MON		LOCAL		
PLANT AREAL EXTENT	MON		LOCAL		
PLANT DENSITY	MON		LOCAL		
PLANT TYPE	MON		LOCAL		
PRECIP WATER PROF	MON		LOCAL		
PRECIP WATER VAPOR	MON		LOCAL		
SOIL MOISTURE	MON		LOCAL		
VEGETATIVE COVER TYPE	MON		LOCAL		
VEGETATIVE EXTENT	MON		LOCAL		
VERT TEMP PROF	MON		LOCAL		

DISCIPLINE TITLE - WATER RESOURCES
 APPLICATION TITLE - EVAPOTRANSPIRATION MODELING
 SUBAPPLICATION TITLE - SKYLAB X15-DETECTOR S-192
 TREE - 2.2 1.1 3

PARAMETER	REFER	DES ACCUR.	BASD ACCUR.	ACCUR UNITS	LOW HORIZ RESOL	HIGH HORIZ RESOL	HORIZ RES UNITS	LOW VERT RESOL	HIGH VERT RESOL	VERT RESOL UNITS	FRESHNESS
ATMOSPHERIC TRANSMITTANCE	L-114										
CONDUCTIVITY	L-114										
CONVECTION	L-114										
EMISSION RATE	L-114										
EVAPORATION RATE	L-114										
EVAPOTRANSPIRATION	L-114										
EVAPOTRANSPIRATION	L-114										
LAND ALBEDO	L-114	2.0	3.0	%	10.0	50.	M				
LAND COVER TYPE	L-114										
LATENT HEAT	L-114										
LEAF REFLECTIVITY	L-114										
PLANT INFESTATION EXTENT	L-114										
PRECIP DURATION	L-114										
SOIL MOISTURE	L-114										
SOIL TEMP PROF	L-114										
SOIL TYPE	L-114										
SOLAR FLUX	L-114										
SUBSURFACE SOIL MOISTURE	L-114										
TOPOGRAPHIC FEATURES	L-114	1.0	3.0	CM	50	50.0	M	1.0	3.0	CM	

DISCIPLINE TITLE - WATER RESOURCES
 APPLICATION TITLE - EVAPOTRANSPIRATION MODELING
 SUBAPPLICATION TITLE - SKYLAB X15-DETECTOR S-192
 TREE - 2.2.1.1.3

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
ATMOSPHERIC TRANSMITTANCE					
CONDUCTIVITY					
CONVECTION					
EMISSION					
EROSION RATE					
EVAPORATION RATE					
EVAPOTRANSPIRATION					
EVAPOTRANSPIRATION					
LAND ALBEDO	DA				L-160
LAND COVER TYPE					
LATENT HEAT					
LEAF REFLECTIVITY					
PLANT INFESTATION EXTENT					
PRECIP DURATION					
SOIL MOISTURE					
SOIL TEMP PROF					
SOIL TYPE					
SOLAR FLUX					
SUBSURFACE SOIL MOISTURE					
TOPOGRAPHIC FEATURES					L-160

DISCIPLINE TITLE - WATER RESOURCES
 APPLICATION TITLE - RUNOFF MODELING
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 2.2.1.2

PARAMETER	REFER.	DES. ACCUR.	BASED ACCUR	ACCUR UNITS	LOW HORIZ RESOL.	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL.	VERT RESOL UNITS	FRESHNESS
DRAINAGE PATTERNS	L-100				30	30.	M				
PRECIP RATE	L-100										
SNOW COVER	L-100				30.0	30.0	M				
SNOW/WATER EQUIVALENT	L-100										
SOIL MOISTURE	L-100				30.0	30.0	M				
SOIL TYPE	L-100				30.0	30.0	M				
VEGETATIVE COVER TYPE	L-100				30.0	30.0	M				

DISCIPLINE TITLE - WATER RESOURCES
 APPLICATION TITLE - RUNOFF MODELING
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 2.2.1.2

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
DRAINAGE PATTERNS	YR		LOCAL		
PRECIP RATE	WK		LOCAL	ALL SEASONS	
SNOW COVER	WK		LOCAL		
SNOW/WATER EQUIVALENT					
SOIL MOISTURE	WK		LOCAL		
SOIL TYPE	YR		LOCAL	LOW SUN ANGLE&LOW MOISTURE	
VEGETATIVE COVER TYPE	MON		LOCAL	ALL SEASONS	

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DISCIPLINE TITLE - WATER RESOURCES
APPLICATION TITLE - WATER MODELING STUDIES
SUBAPPLICATION TITLE - PHOTOGRAPHY OF LAKES&WETLANDS
TREE - 2 2. 1. 3. 1
PARAMETER REFER. DES BASI

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[illegible]

DISCIPLINE TITLE - WATER RESOURCES
 APPLICATION TITLE - WATER MODELING STUDIES
 SUBAPPLICATION TITLE - PHOTOGRAPHY OF LAKES&WETLANDS
 TREE - 2.2.1.3 1

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
DRAINAGE PATTERNS			LOCAL		
ICE EXTENT	3HR-YR		LOCAL		L-160
ICE FLOE LOCATION			LOCAL		
ICE FREEZING RATES			LOCAL		
ICE THICKNESS	2/DA-YR		LOCAL		L-160
POLLUTANT CONCEN			LOCAL		
POLLUTANT TYPE			LOCAL		
SURFACE WATER TEMP	HR-DA		LOCAL		L-160
TOPOGRAPHIC FEATURES			LOCAL		L-160
TOPOGRAPHIC FEATURES			LOCAL		
VEGETATIVE PATTERNS			LOCAL		
WATER FLOW RATE			LOCAL		

DISCIPLINE TITLE - WATER RESOURCES
 APPLICATION TITLE - HYDROLOGIC MODEL DEVELOPMENT
 SUBAPPLICATION TITLE - INTERCEPTION
 TREE - 2 2.1.4.1

PARAMETER	REFER.	DES ACCUR	BASD ACCUR	ACCUR. UNITS	LOW HORIZ RESOL	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL	HIGH VERT RESOL	VERT RESOL UNITS	FRESHNESS
DRAINAGE PATTERNS	L-100										
EVAPORATION RATE	L-100	0.5	2.0	MM/DA	0.02	500.0	KM				
EVAPORATION RATE	L-100	100.0	100.0	W/CM2	500.	500.	KM				
PLANT DENSITY	L-100										
PLANT TYPE	L-100	2.0	5.0	%	0.01	500.0	KM				
PRECIP DURATION	L-100										
PRECIP RATE	L-100	0.5	2.0	CM/HR	3.0	200.0	KM				
SURFACE WIND SPEED	L-100	1.0	3.0	MB	5.0	500.	KM				

DISCIPLINE TITLE - WATER RESOURCES
 APPLICATION TITLE - HYDROLOGIC MODEL DEVELOPMENT
 SUBAPPLICATION TITLE - INTERCEPTION
 TREE - 2.2.1.4.1

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
DRAINAGE PATTERNS			LOCAL		
EVAPORATION RATE	MON-WK		LOCAL	ALL SEASONS	L-160
EVAPORATION RATE	MON		LOCAL	ALL SEASONS	L-160
PLANT DENSITY			LOCAL		
PLANT TYPE	WK-YR		LOCAL	ALL SEASONS	L-160
PRECIP DURATION			LOCAL		
PRECIP RATE	MN-DA		LOCAL	ALL SEASONS	L-160
SURFACE WIND SPEED	MN-DA		LOCAL		L-160

DISCIPLINE TITLE - WATER RESOURCES
 APPLICATION TITLE - CONSUMPTIVE USE STUDIES
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 2 3.1.1

PARAMETER	REFER.	DES ACCUR.	BASED ACCUR.	ACCUR. UNITS	LOW HORIZ RESOL.	HIGH HORIZ RESOL	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL	VERT RESOL UNITS	FRESHNESS
LAND COVER TYPE				L-0							
POPULATION DENSITY				L-0							
WATER DEPTH				L-0							
WATER EXTENT				L-0							
WATER QUALITY				L-0							

DISCIPLINE TITLE - WATER RESOURCES
APPLICATION TITLE - CONSUMPTIVE USE STUDIES
SUBAPPLICATION TITLE - NO TITLE
TREE - 2.3.1.1
PARAMETER

FREQUENCY
OF UPDATE

DURATION

AREAL
COVERAGE

OBSERVATION
TIME

COMMENTS

LAND COVER TYPE
POPULATION DENSITY
WATER DEPTH
WATER EXTENT
WATER QUALITY

DISCIPLINE TITLE - WATER RESOURCES
APPLICATION TITLE - RECREATIONAL USE STUDIES
SUBAPPLICATION TITLE - NO TITLE
TREE - 2 3.1.2

[illegible]

DISCIPLINE TITLE - WATER RESOURCES
APPLICATION TITLE - RECREATIONAL USE STUDIES
SUBAPPLICATION TITLE - NO TITLE
TREE - 2.3.1.2
PARAMETER

FREQUENCY
OF UPDATE

DURATION

AREAL
COVERAGE

OBSERVATION
TIME

COMMENTS

CURRENT VELOCITY
LAND COVER TYPE
WATER DEPTH
WATER EXTENT
WATER LEVEL
WATER QUALITY

[illegible]

DISCIPLINE TITLE - WATER RESOURCES
 APPLICATION TITLE - INDUSTRIAL USES
 SUBAPPLICATION TITLE - INDUSTRIAL WASTES
 TREE - 2 3.1.3.1

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
CHEMICAL POLLUTANT TYPE	MON-YR		INDUSTRIAL AREA	ALL YEAR	L-160
DISSOLVED NUTRIENTS	MON-YR		INDUSTRIAL AREA	ALL YEAR	L-160
HEAT TRANSPORT			INDUSTRIAL AREA	ALL YEAR	
INFESTIOUS AGENTS			INDUSTRIAL AREA	ALL YEAR	
MINERAL SUBSTANCES	MON-YR		INDUSTRIAL AREA	ALL YEAR	L-160
ORGANIC MATERIALS	MON-YR		INDUSTRIAL AREA	ALL YEAR	L-160
RADIOACTIVE WASTE EXTENT	MON-YR		INDUSTRIAL AREA	ALL YEAR	L-160
SEDIMENT	HR-DA		INDUSTRIAL AREA	ALL YEAR	L-160
SEWAGE WASTES			INDUSTRIAL AREA	ALL YEAR	

DISCIPLINE TITLE - WATER RESOURCES
 APPLICATION TITLE - WATERSHED MANAGEMENT
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 2.3.2.1

PARAMETER	REFER	DES ACCUR	BASED ACCUR.	ACCUR. UNITS	LOW HORIZ RESOL.	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL.	VERT RESOL UNITS	FRESHNESS
CURRENT VELOCITY	L-101										
DRAINAGE PATTERNS	L-101				2.0	2.0	M				
DRAINAGE PATTERNS	L-160				20.0	50.0	M				
FLOOD EXTENT	L-101										
LAND COVER TYPE	L-101				2.0	80.0	M				
LAND COVER TYPE	L-160				5.0	50.0	M				
ROCK ALTERATION	L-101										
ROCK FORMATION	L-101										
ROCK TYPE	L-160				0.02	5.0	KM				
SKIN DEPTH	L-160				0.02	5.0	KM				
SOIL POROSITY	L-101										
SOIL POROSITY	L-160				0.02	5.0	KM				
TOPOGRAPHIC FEATURES	L-160	1.0	3.0	CM	0.05	1.0	KM	1.0	3.0	CM	
TOPOGRAPHIC FEATURES	L-101										
TURBIDITY	L-101				2.0	2.0	M				24HR
TURBIDITY	L-160	0.01	0.01	PPM	0.05	1.0	KM				
VEGETATIVE COVER TYPE	L-101				2.0	80.0	M				
WATER DEPTH	L-101				2.0	2.0	M				
WATER DEPTH	L-160				20.0	50.0	M				
WATER EXTENT	L-101										
WATER LEVEL	L-101										
WETLAND EXTENT	L-101				2.0	80.0	M				
WETLAND EXTENT	L-160	50.0	100.0	M	50.0	100.0	M				

DISCIPLINE TITLE - WATER RESOURCES
 APPLICATION TITLE - WATERSHED MANAGEMENT
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 2 3.2.1

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
CURRENT VELOCITY					
DRAINAGE PATTERNS	6-BWK	20 YR	LOCAL		
DRAINAGE PATTERNS	MON-YR				
FLOOD EXTENT	PERIODIC		LOCAL		
LAND COVER TYPE	YR	10 YR	LOCAL		
LAND COVER TYPE	YR				
ROCK ALTERATION	AS NEEDED	20YR			
ROCK FORMATION		20YR			
ROCK TYPE	4/YR				
SKIN DEPTH	4/YR				
SOIL POROSITY	ON DEMAND				
SOIL POROSITY	4/YR				
TOPOGRAPHIC FEATURES					
TOPOGRAPHIC FEATURES	ONCE				
TURBIDITY	DA		LOCAL		
TURBIDITY	4/DA-MON				
VEGETATIVE COVER TYPE	YR	10YR	LOCAL		
WATER DEPTH	AS NEEDED				
WATER DEPTH	MON-YR				
WATER EXTENT		5-10YR			
WATER LEVEL	YR				
WETLAND EXTENT	6-BWK	5-10YR			
WETLAND EXTENT	MON-YR				

AERIAL AND S/C PHOTOS

DISCIPLINE TITLE - WATER RESOURCES
 APPLICATION TITLE - WATER REQUIREMENTS ASSESSMENT
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 2 3. 2. 2

PARAMETER	REFER.	DES ACCUR.	BASED ACCUR	ACCUR UNITS	LOW HORIZ RESOL.	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL.	VERT RESOL UNITS	FRESHNESS
LAND SURFACE TEMP	L-160	0.1	1.0	DEG C	5.	500	KM				
PLANT AREAL EXTENT	L-100				30.0	30.0	M				
PLANT AREAL EXTENT	L-160	2.0	5.0	%	0.01	500.0	KM				
PLANT GROWTH STAGE	L-100				30.0	30.0	M				
PLANT GROWTH STAGE	L-160				100.0	100.0	M				
PLANT TYPE	L-100				30.0	30.0	M				MDN
PLANT TYPE	L-160	2.0	5.0	%	0.01	500.0	KM				
SOIL MOISTURE	L-100				50.0	50.0	M				
SOIL MOISTURE	L-160	0.5	0.5	CC/CC	0.02	500.	KM				
SOIL TEMP	L-100				100.0	100.0	M				
SURFACE AIR TEMP	L-100				5.0	5.0	KM				
SURFACE AIR TEMP	L-160	0.1	1.0	DEG C	0.1	200.0	KM				

DISCIPLINE TITLE - WATER RESOURCES
 APPLICATION TITLE - WATER REQUIREMENTS ASSESSMENT
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 2 3.2.2

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
LAND SURFACE TEMP	MN-MON		LOCAL	ALL SEASONS	
PLANT AREAL EXTENT	MON		LOCAL	ALL SEASONS	
PLANT AREAL EXTENT	WK-YR		LOCAL	ALL SEASONS	
PLANT GROWTH STAGE	MON		LOCAL	ALL SEASONS	
PLANT GROWTH STAGE			LOCAL	ALL SEASONS	
PLANT TYPE	MON		LOCAL	ALL SEASONS	
PLANT TYPE	WK-YR		LOCAL	ALL SEASONS	
SOIL MOISTURE	DA		LOCAL	ALL SEASONS	
SOIL MOISTURE	HR-YR		LOCAL	ALL SEASONS	
SOIL TEMP	2/DA		LOCAL	ALL SEASONS	
SURFACE AIR TEMP	2/DA		LOCAL	ALL SEASONS	
SURFACE AIR TEMP	HR-DA		LOCAL	ALL SEASONS	

DISCIPLINE TITLE - WATER RESOURCES
 APPLICATION TITLE - WATER RESTS EVAL FOR CROP RESOURCES MGT
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 2.3.2.3
 PARAMETER

REFER.	DES ACCUR.	BASED ACCUR.	ACCUR UNITS	LOW HORIZ RESOL.	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL.	VERT RESOL UNITS	FRESHNESS
L-167				50.0	50.0	M				
L-167				50.0	50.0	MM				
L-167				0.05	2.0	KM				
L-167				0.05	2.0	KM				
L-167				50.0	100.0	M				
L-167				50.0	100.0	MM				
L-167				50.0	100.0	M				

DISSOLVED NUTRIENTS
 DISSOLVED OXYGEN
 PHYTOPLANKTON TYPE
 PLANT TYPE
 SOIL MOISTURE
 WATER DEPTH
 WATER TALBE DEPTH

DISCIPLINE TITLE - WATER RESOURCES
 APPLICATION TITLE - WATER RESTS EVAL FOR CROP RESOURCES MGT
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 2.3.2.3

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
DISSOLVED NUTRIENTS	YR		LOCAL	ALL SEASONS	
DISSOLVED OXYGEN	YR		LOCAL	ALL SEASONS	
PHYTOPLANKTON TYPE	4/YR-YR		LOCAL	ALL SEASONS	
PLANT TYPE	4/YR-YR		LOCAL	ALL SEASONS	
SOIL MOISTURE	WK-5YR		LOCAL	ALL SEASONS	
WATER DEPTH	MON-3YR		LOCAL	ALL SEASONS	
WATER TALBE DEPTH	4/YR-YR		LOCAL	ALL SEASONS	

DISCIPLINE TITLE - WATER RESOURCES
 APPLICATION TITLE - IRRIGATION SCHEDULING BASED ON SOIL MOISTURE
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 2.3 2.4

PARAMETER	REFER.	DES ACCUR	BASED ACCUR	ACCUR UNITS	LOW HORIZ RESOL	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL.	VERT RESOL UNITS	FRESHNESS
DRAINAGE PATTERNS	L-167	20 0	50 0	M	20.0	50.0	M				WK-YR
DROUGHT INDEX	L-167	10.0	1000.0		20.0	50.0	M				
PLANT DENSITY	L-167				75.0	150.0	M				
PLANT-WATER STRESS	L-167				75.0	150.0	M				
SOIL MOISTURE	L-167	0.5	0.5	CC/CC	20.0	50.0	M				
VEGETATIVE CONDITION	L-167				75.0	150.0	M				
VEGETATIVE TYPE	L-167				30.0	1000.0	M				
WATER TABLE DEPTH	L-167				20.0	20.0	M				

DISCIPLINE TITLE - WATER RESOURCES
 APPLICATION TITLE - IRRIGATION SCHEDULING BASED ON SOIL MOISTURE
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 2.3.2.4

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
DRAINAGE PATTERNS			LOCAL	ALL SEASONS	
DROUGHT INDEX	MON-YR		LOCAL	ALL SEASONS	
PLANT DENSITY	MON		LOCAL	ALL SEASONS	
PLANT-WATER STRESS	MON-YR		LOCAL	ALL SEASONS	
SOIL MOISTURE	MON		LOCAL	ALL SEASONS	
VEGETATIVE CONDITION	MON		LOCAL	ALL SEASONS	
VEGETATIVE TYPE	5 YR		LOCAL	ALL SEASONS	
WATER TABLE DEPTH	MON		LOCAL	ALL SEASONS	

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DISCIPLINE TITLE - WATER RESOURCES
APPLICATION TITLE - WATER SUPPLY FORECASTS
SUBAPPLICATION TITLE - NO TITLE
TREE - 2. 3. 2. 5

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[illegible]

DISCIPLINE TITLE - WATER RESOURCES
 APPLICATION TITLE - WATER SUPPLY FORECASTS
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 2 3.2.5

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
EVAPORATION RATE	WK-MON				L-160
EVAPOTRANSPIRATION					L-0
ICE/SNOW EXTENT	3 HR-YR				L-160
PRECIP RATE	MN-DA				L-160
RUNOFF VOLUME					
SNOW DEPTH	2/DA-DA				L-160
WATER DEPTH					
WATER EXTENT					

DISCIPLINE TITLE - WATER RESOURCES
 APPLICATION TITLE - WATER SUPPLY FOR FISH AND WILDLIFE
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 2.3.2.6

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
DAM LOCATION					
DAM WATER LEVEL					
DRAINAGE PATTERNS					
POLLUTANT TYPE					
WATER EXTENT					RIVER
WATER LEVEL					RIVER

DISCIPLINE TITLE - WATER RESOURCES
 APPLICATION TITLE - TRANSPORTATION&NAVIGATION
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 2 4. 1. 1

PARAMETER	REFER.	DES ACCUR	BASED ACCUR	ACCUR. UNITS	LOW HORIZ RESOL.	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL.	VERT RESOL UNITS	FRESHNESS
OCEAN SURFACE CURRENT AMP	L-162	5.0	5.0	CM/S	1.0	20.0	KM				
OCEAN SURFACE CURRENT DIR	L-162				1.0	20.0	KM				
OCEAN SURFACE CURRENT DIR	L-162				1.0	20.0	KM				
OCEAN SURFACE CURRENT LOC	L-162	5.0	5.0	CM/S	1.0	20.0	KM				
OCEAN SURFACE PRESSURE	L-162	1.0	3.0	MB	1.0	10.0	KM				
OCEAN SURFACE WIND SPEED	L-162	0.5	0.5	M/S	5	10	KM				
OCEAN TEMP PROF	L-162	0.1	1.0	DEG C	1.0	100.0	KM				
SURFACE WATER TEMP	L-162	0.1	0.5	DEG C	1.0	100.	KM				
TURBIDITY	L-162	0.01	0.01	PPM	4	4	KM				
WATER DEPTH	L-167				50.0	50.0	M				

DISCIPLINE TITLE - WATER RESOURCES
 APPLICATION TITLE - TRANSPORTATION&NAVIGATION
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 2 4 1 1

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
OCEAN SURFACE CURRENT AMP	4/DA		LOCAL	ALL SEASONS	
OCEAN SURFACE CURRENT DIR	4/DA		LOCAL	ALL SEASONS	
OCEAN SURFACE CURRENT DIR	4/DA		LOCAL	ALL SEASONS	
OCEAN SURFACE CURRENT LOC	4/DA		LOCAL	ALL SEASONS	
OCEAN SURFACE PRESSURE	2-10/DA		LOCAL	ALL SEASONS	
OCEAN SURFACE WIND SPEED	4-10/DA		LOCAL	ALL SEASONS	
OCEAN TEMP PROF	2-10/DA		LOCAL	ALL SEASONS	
SURFACE WATER TEMP	1-10/DA		LOCAL	ALL SEASONS	
TURBIDITY	2/DA		LOCAL	ALL SEASONS	
WATER DEPTH	YR		LOCAL	ALL SEASONS	RIVER

DISCIPLINE TITLE - WATER RESOURCES
 APPLICATION TITLE - POLLUTANT WATER
 SUBAPPLICATION TITLE - OCEAN WATER CONTAMINATION
 TREE - 2.4.1.2.1

PARAMETER	REFER.	DES. ACCUR.	BASED ACCUR.	ACCUR. UNITS	LOW HORIZ RESOL.	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL.	VERT RESOL UNITS	FRESHNESS
ASTRONOMICAL/STORM TIDES	L-162	5.0	5.0	CM	0.5	0.5	KM				
CHLOROPHYLL	L-162	10.0	10.0	%	4	4	KM				
COASTAL/ESTUARY CIR AMP	L-160				0.01	10.0	KM				
COASTAL/ESTUARY CIR LOC	L-160				0.01	10.0	KM				
OCEAN SURFACE CURRENT AMP	L-162				1.0	20.0	KM				
OCEAN SURFACE CURRENT LOC	L-162				1.0	20.0	KM				
OCEAN SURFACE WIND SPEED	L-162				0.01	10.0	KM				
OCEAN WAVE HEIGHT	L-162	0.5	0.5	M	5.0	10.0	KM				
OCEAN WAVE LENGTH AMP	L-161	10.0	10.0	%	5.0	10.0	KM				
SALINITY	L-162				5.0	5.0	KM				
SURFACE WATER TEMP	L-162	0.1	0.2	DEG C	200.	200	KM				
TURBIDITY	L-162	0.01	0.01	PPM	.4	4	KM				

DISCIPLINE TITLE - WATER RESOURCES
 APPLICATION TITLE - POLLUTANT WATER
 SUBAPPLICATION TITLE - OCEAN WATER CONTAMINATION
 TREE - 2.4.1.2.1

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
ASTRONOMICAL/STORM TIDES	10/DA				
CHLOROPHYLL	DA				
COASTAL/ESTUARY CIR AMP					
COASTAL/ESTUARY CIR LOC					
OCEAN SURFACE CURRENT AMP	10/DA				
OCEAN SURFACE CURRENT LOC	10/DA				
OCEAN SURFACE WIND SPEED					
OCEAN WAVE HEIGHT	10/DA				
OCEAN WAVE LENGTH AMP	10/DA				
SALINITY	2/MON				
SURFACE WATER TEMP	DA				
TURBIDITY	4/DA				

DISCIPLINE TITLE - WATER RESOURCES
 APPLICATION TITLE - POLLUTANT WATER
 SUBAPPLICATION TITLE - FRESH WATER CONTAMINATION
 TREE - 2 4. 1. 2. 2

PARAMETER	REFER.	DES ACCUR	BASED ACCUR.	ACCUR UNITS	LOW HORIZ RESOL	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL	HIGH VERT RESOL.	VERT RESOL UNITS	FRESHNESS
ALGAE TYPE	L-167				0.05	5 0	KM				
CHEMICAL PESTICIDE CONCEN	L-167				10.0	100.0	M				
CHEMICAL PESTICIDE EXTENT	L-167				10.0	100.0	M				
CHEMICAL PESTICIDE TYPE	L-167				10.0	100.0	M				
CHEMICAL POLLUTANT TYPE	L-167				10.0	40.0	M				
CHLOROPHYLL	L-167				0.05	5 0	KM				
DISSOLVED OXYGEN	L-167				50.0	50.0	M				
DRAINAGE PATTERNS	L-167				50.0	50.0	M				
METAL TYPE	L-167				50.0	50.0	M				
MINERAL LOCATION	L-167				2 0	2 0	KM				
ORGANIC MATERIALS	L-167				10.0	40.0	M				
PESTICIDE POLLUTANT TYPE	L-167				10.0	40.0	M				
PETROLEUM POLLUTANT THICKNESS	L-167				20.0	20.0	M				
PETROLEUM POLLUTANT TYPE	L-167				10.0	40.0	M				
PH-BALANCE	L-167				50.0	50.0	M				
PHYTOPLANKTON TYPE	L-167				0.05	5 0	KM				
RADIOACTIVE WASTE TYPE	L-167				10.0	40.0	M				
SALINITY	L-167				5 0	5 0	M				
SATURATION OF VADOSE ZONE	L-167				50.0	50.0	M				
SEDIMENTATION RATE	L-167				50.0	50.0	M				
TOPSOIL EXTENT	L-167				50.0	50.0	M				
TURBIDITY	L-167				50.0	100.0	KM				
WATER EXTENT	L-167				10.0	40.0	M				
WATER EXTENT	L-167				50.0	50.0	M				
ZOOPLANKTON	L-167				0.05	5 0	KM				

DISCIPLINE TITLE - WATER RESOURCES
 APPLICATION TITLE - POLLUTANT WATER
 SUBAPPLICATION TITLE - FRESH WATER CONTAMINATION
 TREE - 2. 4. 1. 2. 2

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
ALGAE TYPE	1-12 MON				
CHEMICAL PESTICIDE CONCEN	1-12 MON				
CHEMICAL PESTICIDE EXTENT	1-12 MON				
CHEMICAL PESTICIDE TYPE	1-12 MON				
CHEMICAL POLLUTANT TYPE	1-3 MON				
CHLOROPHYLL	14 DA-YR				
DISSOLVED OXYGEN	3 MON				
DRAINAGE PATTERNS	MON				
METAL TYPE	3-12 MON				
MINERAL LOCATION	5 YR				
ORGANIC MATERIALS	WK-3MON				
PESTICIDE POLLUTANT TYPE	WK-3MON				
PETROLEUM POLLUTANT THICKNESS	WK-3MON				
PETROLEUM POLLUTANT TYPE	1-3 MON				
PH-BALANCE	3-12 MON				
PHYTOPLANKTON TYPE	1-12 MON				
RADIOACTIVE WASTE TYPE	MON-3MON				
SALINITY	14 DA				
SATURATION OF VADOSE ZONE	MON				
SEDIMENTATION RATE	MON				
TOPSOIL EXTENT	3 MON				
TURBIDITY	1-12 MON				
WATER EXTENT	YR				
WATER EXTENT	14 DA				
ZOOPLANKTON	1-12 MON				

LAKE/RESERVIOR
 RED TIDE

DISCIPLINE TITLE - WATER RESOURCES
 APPLICATION TITLE - FLOOD AREA MAPPING
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 2.4.2.1

PARAMETER	REFER.	DES ACCUR.	BASED ACCUR	ACCUR. UNITS	LOW HORIZ RESOL	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL.	VERT RESOL UNITS	FRESHNESS
DRAINAGE PATTERNS	L-156										
FLOOD EXTENT	L-100				20 0	20 0	M				
FLOOD EXTENT	L-160				20.0	50.0	M				
FLOOD EXTENT	L-156				20.0	20.0					NRT-10 DA
LAND COVER TYPE	L-156										
PLANT AREAL EXTENT	L-100										
PLANT AREAL EXTENT	L-160	2.0	5.0	%	0.01	500 0	KM				
SOIL MOISTURE	L-100				50.0	50 0	M				DA
SOIL MOISTURE	L-156				20 0	20.0	M				NRT-10 DA
SOIL MOISTURE	L-160	0.5	0.5	CC/CC	0.02	500.0	KM				
SOIL TEXTURE	L-156										
SOIL TYPE	L-156				0.02	0.02	KM				MON
SOIL TYPE	L-160				0 02	5.0	KM				
STORM INTENSITY	L-100										
TOPOGRAPHIC FEATURES	L-100										
TOPOGRAPHIC FEATURES	L-156				50.0	50.0					MON
TOPOGRAPHIC FEATURES	L-160	1.0	3.0	CM	0.05	1 0	KM	0.3	0.3	CM	MON
TOPOGRAPHIC FEATURES	L-156				50 0	50.0	M				
TOPOGRAPHIC FEATURES	L-156										
TURBIDITY	L-156				50 0	50 0	M				NRT-10 DA
TURBIDITY	L-160	0.01	0 01	PPM	0.05	1.0	KM				
VEGETATIVE MOISTURE	L-100										
VEGETATIVE MOISTURE	L-160				0.03	1 0	KM				
WATER EXTENT	L-156				20 0	20.0	M				NRT-10 DA

DISCIPLINE TITLE - WATER RESOURCES
 APPLICATION TITLE - FLOOD AREA MAPPING
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 2.4.2.1

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
DRAINAGE PATTERNS					
FLOOD EXTENT				ALL SEASONS	
FLOOD EXTENT	MON				
FLOOD EXTENT		DURATION OF FLOOD	LOCAL		
LAND COVER TYPE					
PLANT AREAL EXTENT					
PLANT AREAL EXTENT	WK			ALL SEASONS	
SOIL MOISTURE		DURATION OF FLOOD	LOCAL		
SOIL MOISTURE				ALL SEASONS	
SOIL MOISTURE	HR				
SOIL TEXTURE					LAND SURFACE
SOIL TYPE			LOCAL		
SOIL TYPE	4/YR				
STORM INTENSITY					
TOPOGRAPHIC FEATURES	PERIODIC			ALL SEASONS	
TOPOGRAPHIC FEATURES			LOCAL		
TOPOGRAPHIC FEATURES				ALL SEASONS	
TOPOGRAPHIC FEATURES		DURATION OF FLOOD	LOCAL		
TOPOGRAPHIC FEATURES					
TOPOGRAPHIC FEATURES					
TURBIDITY		DURATION OF FLOOD	LOCAL		FLOOD PLAIN
TURBIDITY	4/DA				
VEGETATIVE MOISTURE					
VEGETATIVE MOISTURE	WK				
WATER EXTENT		DURATION OF FLOOD	LOCAL		

DISCIPLINE TITLE - WATER RESOURCES
 APPLICATION TITLE - FLOOD DAMAGE ASSESMENT
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 2.4 2.2

PARAMETER	REFER.	DES ACCUR.	BASED ACCUR.	ACCUR. UNITS	LOW HORIZ RESOL	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL.	VERT RESOL UNITS	FRESHNESS
EROSION RATE	L-0										
FLOOD EXTENT	L-0	50.0	100.0	M	0.05	100.0	M				
PLANT AREAL EXTENT	L-0	2.0	5.0	%	0.01	500.0	KM				
PLANT GROWTH STAGE	L-0				100.0	100.0	M				
PLANT TYPE	L-0	2.0	5.0	%	0.01	500.0	KM				
SEVERE STORM LOC	L-0										
STORM INTENSITY	L-0										
STRUCTURAL ANOMOLIES	L-0										
TOPOGRAPHIC FEATURES	L-0	1.0	3.0	CM	0.05	1.0	KM	1.0			
VEGETATIVE CONDITION	L-0				0.03	1.0	KM			CM	

DISCIPLINE TITLE - WATER RESOURCES
 APPLICATION TITLE - FLOOD DMAGE ASSESMENT
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 2.4 2.2

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
EROSION RATE					
FLOOD EXTENT	MON-YR				L-160
PLANT AREAL EXTENT	WK-YR				L-160
PLANT GROWTH STAGE	MON				L-160
PLANT TYPE	WK-YR				L-160
SEVERE STORM LOC					
STORM INTENSITY					
STRUCTURAL ANAMOLIES					
TOPOGRAPHIC FEATURES					L-160
VEGETATIVE CONDITION	WK-YR				L-160

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DISCIPLINE TITLE - WATER RESOURCES
APPLICATION TITLE - FLOOD WATER MONITORING
SUBAPPLICATION TITLE - NO TITLE
TREE - 2.4.2.3
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[illegible]

DISCIPLINE TITLE - WATER RESOURCES
APPLICATION TITLE - FLOOD WATER MONITORING
SUBAPPLICATION TITLE - NO TITLE
TREE - 2 4.2.3

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
CURRENT VELOCITY			LOCAL		
DRAINAGE PATTERNS			LOCAL		
TOPOGRAPHIC FEATURES			LOCAL		
WATER DEPTH			LOCAL		
WATER DEPTH	MON				
WATER EXTENT			LOCAL		
WATER EXTENT	MON				
WATER FLOW RATE			LOCAL		
WATER LEVEL			LOCAL		

Water Quality Applications
Data Sheets

DISCIPLINE TITLE - WATER QUALITY
 APPLICATION TITLE - PHYSICS OF WATER BORNE POLLUTANTS
 SUBAPPLICATION TITLE - LANDSAT DIGITAL CONTRAST-STRETCH ENHANCEMENT
 TREE - 3.1.1.1

PARAMETER	REFER	DES ACCUR	BASED ACCUR.	ACCUR UNITS	LOW HORIZ RESOL.	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL	VERT RESOL UNITS	FRESHNESS
CLOUD COVER	L-110				2	2	KM				
CURRENT VELOCITY	L-110				2	2	KM				
NATURAL POLLUTANTS	L-110				2	2	KM		2		
PETROLEUM POLLUTANT EXTENT	L-110				2	2	KM				
PETROLEUM POLLUTANT EXTENT	L-110										
PETROLEUM POLLUTANT THICKNESS	L-110										
SEDIMENT	L-110				2	2	KM				
SURFACE WIND SPEED	L-110				2	2	KM				
TOPOGRAPHIC FEATURES	L-110				2	2	KM				
VERT WIND PROF	L-110										
WATER DEPTH	L-110		14.	KM	2	2	KM				

DISCIPLINE TITLE - WATER QUALITY
 APPLICATION TITLE - PHYSICS OF WATER BORNE POLLUTANTS
 SUBAPPLICATION TITLE - LANDSAT DIGITAL CONTRAST-STRETCH ENHANCEMENT
 TREE - 3 1 1.1

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
CLOUD COVER	25 SEC	1000-1200 HR	LOCAL	OCT 75	
CURRENT VELOCITY		1000-1200 HR	LOCAL	OCT 75	
NATURAL POLLUTANTS	25 SEC	1000-1200 HR	185X185 KM	OCT 75	BA 16X11 KM
PETROLEUM POLLUTANT EXTENT	25 SEC	1000-1200 HR	185X185 KM	OCT 75	BA 16X11 KM
PETROLEUM POLLUTANT EXTENT PETROLEUM POLLUTANT THICKNESS SEDIMENT	25 SEC	1000-1200 HR	185X185 KM	OCT 75	
SURFACE WIND SPEED		1000-1200 HR	LOCAL	OCT 75	
TOPOGRAPHIC FEATURES	25 SEC	1000-1200 HR	185X185 KM	OCT 75	
VERT WIND PROF		1000-1200 HR	LOCAL	OCT 75	
WATER DEPTH		1000-1200 HR	LOCAL	OCT 75	

DISCIPLINE TITLE - WATER QUALITY
 APPLICATION TITLE - PHYSICS OF WATER BORNE POLLUTANTS
 SUBAPPLICATION TITLE - NATURAL OIL AND GAS
 TREE - 3.1.1.2

PARAMETER	REFER	DES. ACCUR	BASD ACCUR.	ACCUR UNITS	LOW HORIZ RESOL	HIGH HORIZ RESOL	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL	VERT RESOL UNITS	FRESHNESS
CLOUD COVER	L-161	5	20	%	100.	500	KM				MN
CURRENT DIRECTION	L-162	10		DEG	1	20	KM				
CURRENT VELOCITY	L-162	5		CM	1	20	KM				
SEDIMENT	L-167				20	2000	M				
SURFACE WIND DIR	L-162	2	10.	DEG	5	200	KM				MN
SURFACE WIND SPEED	L-162	0.5	3	M/S	5	200.	KM				MN
TOPOGRAPHIC FEATURES	L-167				50	50.	M				
VERT WIND PROF	L-161	3	3	M/S	500	500.	KM	200	200	MB	
WATER DEPTH	L-167				50	50	M				

DISCIPLINE TITLE - WATER QUALITY
 APPLICATION TITLE - PHYSICS OF WATER BORNE POLLUTANTS
 SUBAPPLICATION TITLE - NATURAL OIL AND GAS
 TREE - 3.1.1.2

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
CLOUD COVER	DA-HR				
CURRENT DIRECTION	DA-4/DA				
CURRENT VELOCITY	DA-4/DA				
SEDIMENT	4/YR				
SURFACE WIND DIR	4/DA-HR	2 DA			
SURFACE WIND SPEED	4/DA-HR	2 DA			
TOPOGRAPHIC FEATURES	YR OR ONCE				
VERT WIND PROF	DA-HR	1-2 DA			
WATER DEPTH	MON-YR				

DISCIPLINE TITLE - WATER QUALITY
 APPLICATION TITLE - LASER TECHNOLOGY FOR SUBSURFACE MONITORING
 SUBAPPLICATION TITLE - LASER-FLUORENSENSE TECH FOR WATER QUALITY ASSESS
 TREE - 3.1.1.3

PARAMETER	REFER.	DES ACCUR	BASED ACCUR	ACCUR UNITS	LOW HORIZ RESOL	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL.	VERT RESOL UNITS	FRESHNESS
ALGAE CONCEN	L-104	620.0	440.0	NM				200.0	400.0	M	
ALGAE CONCEN	L-167				0.05	5.0	KM				1 MON
CHLOROPHYLL	L-104	620.0	440.0	NM				200.0	400.0	M	
CHLOROPHYLL	L-162		10.0	%	400.0	400.0	M				24 HR
DISSOLVED NUTRIENTS	L-167				50.0						1 MON
DISSOLVED NUTRIENTS	L-104										
EMISSION	L-104										
OCEAN SURFACE PRESSURE	L-104										
OCEAN SURFACE PRESSURE	L-161	1.0	3.0	MB	500.0	500.0	KM				1 DA
ORGANIC CARBON IN WATER	L-104										
SHIP SIZE	L-104		1.0	PPS	27.0	27.0	M	200.0	200.0	M	27 M/S
SOLAR FLUX	L-104										
SOLAR FLUX	L-161	10.0		%							
WATER TEMP	L-104										
WATER TEMP PROF	L-162	0.25	0.5	DEG C	5.0	100.0	KM	1.0	100.0	7	1 HR

DISCIPLINE TITLE - WATER QUALITY
 APPLICATION TITLE - LASER TECHNOLOGY FOR SUBSURFACE MONITORING
 SUBAPPLICATION TITLE - LASER-FLUOROSENSOR TECH FOR WATER QUALITY ASSESS
 TREE - 3 1 1.3

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
ALGAE CONCEN		USE FLIGHT LINE	LOCAL	CONTINUES	
ALGAE CONCEN	YR-MON				
CHLOROPHYLL		USE FLIGHT LINE	LOCAL	CONTINUES	
CHLOROPHYLL	MON-DA				
DISSOLVED NURTIENTS	YR-MON		LOCAL		
DISSOLVED NUTRIENTS			LOCAL		
EMISSIONIVITY			LOCAL		
OCEAN SURFACE PRESSURE	3 HR-DA		LOCAL		
OCEAN SURFACE PRESSURE			LOCAL		
ORGANIC CARBON IN WATER		USE FLIGHT LINE	LOCAL	R/T	
SHIP SIZE			LOCAL		
SOLAR FLUX			LOCAL		
SOLAR FLUX	DA				
WATER TEMP			LOCAL		
WATER TEMP PROF	10/DA-DA				OBSERVATION AS NEEDED

DISCIPLINE TITLE - WATER QUALITY
 APPLICATION TITLE - POLLUTION MODELING
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 3 1.2.1

PARAMETER	REFER.	DES ACCUR.	BASED ACCUR	ACCUR. UNITS	LOW HORIZ RESOL	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL	HIGH VERT RESOL	VERT RESOL UNITS	FRESHNESS
CURRENT VELOCITY	L-0	1.	5	M/S	50.	1000.	M				
EVAPORATION RATE	L-0	100		W/CM2							
POINT SOURCE POSITION	L-0										
POLLUTANT CONCEN	L-0				50.	1000	M				
POLLUTANT TYPE	L-0										
SURFACE WATER TEMP	L-0	0 1	1. 0	DEG C	50	1000.	M				
TURBIDITY	L-53	0. 01		PPM	50.	1000.	M				
WATER ALBEDO	L-53	0. 2	0. 4	%	50.	1000	M				

DISCIPLINE TITLE - WATER QUALITY
 APPLICATION TITLE - POLLUTION MODELING
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 3 1 2 1

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
CURRENT VELOCITY	HR-DA		GLOBAL		L-160
EVAPORATION RATE	4/DA-MON		GLOBAL		L-160
POINT SOURCE POSITION			GLOBAL		
POLLUTANT CONCEN	HR-DA		GLOBAL		
POLLUTANT TYPE			GLOBAL		
SURFACE WATER TEMP	HR-MON		GLOBAL		L-160
TURBIDITY	4/DA-MON		GLOBAL		L-160
WATER ALBEDO	HR-MON		GLOBAL		L-160

DISCIPLINE TITLE - WATER QUALITY
APPLICATION TITLE - WATER QUALITY ANALYSIS
SUBAPPLICATION TITLE - WATER QUALITY SURVEY IN THE CHOPTANK RIVER
TREE - 3 1.3.1

[illegible]

DISCIPLINE TITLE - WATER QUALITY
 APPLICATION TITLE - WATER QUALITY ANALYSIS
 SUBAPPLICATION TITLE - WATER QUALITY SURVEY IN THE CHOPTANK RIVER
 TREE - 3.1.3.1

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
ALGAE CONCEN	DA		194X194KM2		L-160
CAROTENOIDS			194X194KM2		
CHLOROPHYLL	DA		194X194KM2		L-160
DISSOLVED NURTIENTS	MON		194X194KM2		L-160
FISH OIL/BIPRODUCT EXTENT	DA		194X194KM2		L-160
NITROGEN			194X194KM2		
OXYGEN	MON		194X194KM2		L-160
PARTICULATES			194X194KM2		
PHOSPHORUS			194X194KM2		
PHYTOPLANKTON EXTENT	DA		194X194KM2		L-160
SEDIMENT	HR-DA		194X194KM2		L-160
SURFACE WATER TEMP	HR-DA		194X194KM2		L-160
SURFACE WIND SPEED	4/DA-DA		194X194KM2		
WATER DEPTH			194X194KM2		

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DISCIPLINE TITLE - WATER QUALITY
APPLICATION TITLE - POLLUTANT TRANSPORT/DISPERSAL
SUBAPPLICATION TITLE - NO TITLE
TREE - 3 1 3 2
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[illegible]

DISCIPLINE TITLE - WATER QUALITY
APPLICATION TITLE - POLLUTANT TRANSPORT/DISPERSAL
SUBAPPLICATION TITLE - NO TITLE
TREE - 3 1 3.2

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
POLLUTANT CONCEN	4/DA-DA			ALL YEAR	
POLLUTANT DISPERSION	4/DA-DA			ALL YEAR	
POLLUTANT TYPE					

DISCIPLINE TITLE - WATER QUALITY
 APPLICATION TITLE - MONITORING CONDITIONS OF LAKES
 SUBAPPLICATION TITLE - MEASURABLE WATER QUALITY PARAMETERS
 TREE - 3.2 1.2

PARAMETER	REFER.	DES ACCUR.	BASED ACCUR	ACCUR UNITS	LOW HORIZ RESOL.	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL.	VERT RESOL UNITS	FRESHNESS
CHEMICAL PESTICIDE CONCEN	L-0				0.5	100.	M				
CHLOROPHYLL	L-0	10		%	0.05	5.	KM				
DISSOLVED NUTRIENTS	L-0				10	50.	M				
DISSOLVED OXYGEN	L-0				10	50	M				
METAL CONCEN	L-0				10	50	M				
NITROGEN	L-0										
ORGANIC CARBON IN WATER	L-0										
PH-BALANCE	L-0				10	50.	M				
PHOSPHORUS	L-0										
PHYTOPLANKTON EXTENT	L-0				0.05	5	KM				
RADIOACTIVE WASTE EXTENT	L-0										
RADIOACTIVE WASTE TYPE	L-0										
SALINITY	L-0	0.005	0.05	PPM	50.	200	KM				
WATER CLARITY	L-0										
ZOOPLANKTON EXTENT	L-0				50	5.	KM				

DISCIPLINE TITLE - WATER QUALITY
 APPLICATION TITLE - MONITORING CONDITIONS OF LAKES
 SUBAPPLICATION TITLE - MEASURABLE WATER QUALITY PARAMETERS
 TREE - 3.2 1.2

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
CHEMICAL PESTICIDE CONCEN	MON-YR		GLOBAL	ALL SEASONS	L-160
CHLOROPHYLL	DA-MON		GLOBAL	ALL SEASONS	L-160
DISSOLVED NUTRIENTS	MON-YR		GLOBAL	ALL SEASONS	L-160
DISSOLVED OXYGEN	MON-YR		GLOBAL	ALL SEASONS	L-160
METAL CONCEN	MON-YR		GLOBAL	ALL SEASONS	L-160
NITROGEN			GLOBAL	ALL SEASONS	
ORGANIC CARBON IN WATER			GLOBAL	ALL SEASONS	
PH-BALANCE	MON-YR		GLOBAL	ALL SEASONS	L-160
PHOSPHORUS			GLOBAL	ALL SEASONS	
PHYTOPLANKTON EXTENT	DA-MON		GLOBAL	ALL SEASONS	L-160
RADIOACTIVE WASTE EXTENT	MON-YR		GLOBAL	ALL SEASONS	L-160
RADIOACTIVE WASTE TYPE	MON-YR		GLOBAL	ALL SEASONS	L-160
SALINITY	HR-YR		GLOBAL	ALL SEASONS	L-160
WATER CLARITY			GLOBAL	ALL SEASONS	
ZOOPLANKTON EXTENT	DA-MON		GLOBAL	ALL SEASONS	160

DISCIPLINE TITLE - WATER QUALITY
 APPLICATION TITLE - POLLUTION MONITORING
 SUBAPPLICATION TITLE - OCEAN CONTAMINATION
 TREE - 3 2 1.3 1

PARAMETER	REFER	DES ACCUR	BASED ACCUR	ACCUR UNITS	LOW HORIZ RESOL	HIGH HORIZ RESOL	HORIZ RES UNITS	LOW VERT RESOL	HIGH VERT RESOL	VERT RESOL UNITS	FRESHNESS
ALGAE EXTENT	L-167				0 05	5 0	KM				
ASTRONOMICAL/STORM TIDES	L-162	5.	5.	CM	0 5	0 5	KM				
CHLOROPHYLL	L-162				0 5	2 0	KM				
CHLOROPHYLL	L-167	10 0	10	%	0 05	5 0	KM				
COASTAL/ESTUARY CIR AMP	L-160	115 0	115.0	CM/S	10 0	10 0	KM				
COASTAL/ESTUARY CIR DIR	L-160	5 0	10.0	DEG	0 01	10 0	KM				
COASTAL/ESTUARY CIR LOC	L-160	10.0		M	0 01	10 0	KM				
FISH IDENTIFICATION	L-167				0 05	2 0	KM				
FISH OIL/BIPRODUCT EXTENT	L-167				0 05	2 0	KM				
FISH OIL/BIPRODUCT THICKNESS	L-167				0 05	2 0	KM				
FISH SIZE	L-167				0 05	2 0	KM				
LAND COVER TYPE	L-167				10 0	50 0	M				
OCEAN SURFACE CURRENT AMP	L-162	2.0	5.0	CM/S	1.0	2 0	KM				
OCEAN SURFACE CURRENT DIR	L-162	10.0	10 0	DEG	1.0	20 0	KM				
OCEAN SURFACE CURRENT LOC	L-160		1 0	KM	1 0	20 0	KM				
OCEAN SURFACE WIND SPEED	L-160										
OCEAN SURFACE WIND SPEED	L-162				10	10000.	M				
OCEAN WAVE HEIGHT	L-162	10	10.	%	5.	10	KM				
OCEAN WAVE LENGTH AMP	L-162	10	10.	%	5.	10	KM				
OCEAN WAVE LENGTH DIR	L-162	10	10.	DEG	5.	10	KM				
PHYTOPLANKTON EXTENT	L-167				0 05	5 0	KM				
SALINITY	L-167	0.005	0 05	PPT	5 0	5 0	KM				
SEA SURFACE TEMP	L-162	0 1	0 2	DEG C	200.	200	KM				
SEDIMENT	L-160	0.01	1 0	KM	0 01	10 0	KM				
SEDIMENT TRANSPORT DIR	L-160	5.0	10.0	DEG	0 01	10 0	KM				
SEDIMENTATION RATE	L-167				50.0	50 0					
SUSPENDED PARTICLE CONCEN	L-160										
TURBIDITY	L-162	0.01	0.01	PPM	400.0	400.					
TURBIDITY	L-167				50 0	100 0	M				
UPWELLING LOCATION	L-160	10.0		M	0 01	10 0	KM				
ZOOPLANKTON EXTENT	L-167				0 05	5 0	KM				

DISCIPLINE TITLE - WATER QUALITY
 APPLICATION TITLE - POLLUTION MONITORING
 SUBAPPLICATION TITLE - OCEAN CONTAMINATION
 TREE - 3.2.1.3.1

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
ALGAE EXTENT	MON-YR		OCEAN	ALL SEASONS	
ASTRONOMICAL/STORM TIDES	10/DA		OCEAN	ALL SEASONS	
CHLOROPHYLL	1-4/YR		OCEAN	ALL SEASONS	
CHLOROPHYLL	2/MON-1/YR		OCEAN	ALL SEASONS	L-160
COASTAL/ESTUARY CIR AMP	HR-DA		OCEAN	ALL SEASONS	
COASTAL/ESTUARY CIR DIR	HR-DA		OCEAN	ALL SEASONS	
COASTAL/ESTUARY CIR LOC	HR-DA		OCEAN	ALL SEASONS	
FISH IDENTIFICATION	DA-MON		OCEAN	ALL SEASONS	
FISH OIL/BIPRODUCT EXTENT	4/YR-1/YR		OCEAN	AKK SEASONS	
FISH OIL/BIPRODUCT THICKNESS	4/YR-1/YR		OCEAN	ALL SEASONS	
FISH SIZE	DA-MON		OCEAN	ALL SEASONS	
LAND COVER TYPE	2/MON OR AS NE*		OCEAN	ALL SEASONS	
OCEAN SURFACE CURRENT AMP	10/DA		OCEAN	ALL SEASONS	
OCEAN SURFACE CURRENT DIR	10/DA		OCEAN	ALL SEASONS	
OCEAN SURFACE CURRENT LOC	10/DA		OCEAN	ALL SEASONS	L-160
OCEAN SURFACE WIND SPEED	HR-DA		OCEAN	ALL SEASONS	
OCEAN SURFACE WIND SPEED	HR-DA		OCEAN	ALL SEASONS	
OCEAN WAVE HEIGHT	10/DA		OCEAN	ALL SEASONS	
OCEAN WAVE LENGTH AMP	10/DA		OCEAN	ALL SEASONS	
OCEAN WAVE LENGTH DIR	10/DA		OCEAN	ALL SEASONS	
PHYTOPLANKTON EXTENT	MON-YR		OCEAN	ALL SEASONS	
SALINITY	2/MON		OCEAN	ALL SEASONS	L-160
SEA SURFACE TEMP	DA		OCEAN	ALL SEASONS	
SEDIMENT	HR-DA		OCEAN	ALL SEASONS	
SEDIMENT TRANSPORT DIR	HR-DA		OCEAN	ALL SEASONS	
SEDIMENTATION RATE	MON		OCEAN	ALL SEASONS	
SUSPENDED PARTICLE CONCEN			OCEAN	ALL SEASONS	
TURBIDITY	400.		OCEAN	ALL SEASONS	
TURBIDITY	MON-YR		OCEAN	ALL SEASONS	
UPWELLING LOCATION	HR-DA		OCEAN	ALL SEASONS	
ZOOPLANKTON EXTENT	MON-YR		OCEAN	ALL SEASONS	RED TIDE

DISCIPLINE TITLE - WATER QUALITY
 APPLICATION TITLE - POLLUTION MONITORING
 SUBAPPLICATION TITLE - FRESH WATER CONTAMINATION
 TREE - 3 2 1 3 2

PARAMETER	REFER.	DES ACCUR	BASED ACCUR	ACCUR UNITS	LOW HORIZ RESOL	HIGH HORIZ RESOL	HORIZ RES UNITS	LOW VERT RESOL	HIGH VERT RESOL	VERT RESOL UNITS	FRESHNESS
ALGAE EXTENT	L-167				0.05	5 0	KM				
CHLOROPHYLL	L-167	10.0	10 0	%	0.05	5 0	KM				
FISH IDENTIFICATION	L-160				0.05	20 0	KM				
FISH OIL/BIPRODUCT EXTENT	L-160				0.05	20 0	KM				
FISH OIL/BIPRODUCT THICKNESS	L-167				0.05	20 0	KM				
FISH SIZE	L-167				0.05	20 0	KM				
IRRIGATION EXTENT	L-167	20 0	20.0	M	50 0	50 0					
LAND COVER TYPE	L-167				10 0	50 0	M				
PH-BALANCE	L-160				0.02	5 0					
PHYTOPLANKTON EXTENT	L-167				0.05	5 0	KM				
RADIOACTIVE NUCLIDES EXTENT	L-160				50 0	50 0					
ROCK TYPE	L-167	2 0	100.0	M	2 0	20 0	KM				
SALINITY	L-160				0.02	5 0	KM				
SALINITY	L-167	0.005	0 05	PPT	5 0	5 0	KM				
SATURATION OF VADOSE ZONE	L-167				50.0	50 0					
SEDIMENTATION RATE	L-167				50.0	50 0	M				
SOIL MOISTURE	L-160		0.5	CC/CC	0.02	500 0	KM				
SOIL/ROCK COMPOSITION	L-160				0.02	5 0	KM				
SURFACE WATER TEMP	L-162	0.1	0.2	DEG C	200.0	200 0	KM				
TOPSOIL TRANSPORT	L-167				50 0	50 0	M				
TURBIDITY	L-167				50 0	100.0	M				
VERT WATER TEMP PROF	L-167	0.1	1.0	DEG C	10.0	20 0	M	1.0	1.0	M	
WATER EXTENT	L-167				50 0	50 0	M				
WATER EXTENT	L-167	10.0	10.0	M	50 0	50 0	M				
ZOOPLANKTON EXTENT	L-167				0 05	5 0	KM				

DISCIPLINE TITLE - WATER QUALITY
 APPLICATION TITLE - POLLUTION MONITORING
 SUBAPPLICATION TITLE - FRESH WATER CONTAMINATION
 TREE - 3 2 1.3 2

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
ALGAE EXTENT	MON-YR		FRESH WATER		
CHLOROPHYLL	2/MON-YR		FRESH WATER	ALL SEASONS	L-160
FISH IDENTIFICATION	DA-MON		FRESH WATER	ALL SEASONS	
FISH OIL/BIPRODUCT EXTENT	4/YR-1/YR		FRESH WATER	ALL SEASONS	
FISH OIL/BIPRODUCT THICKNESS	4/YR-1/YR		FRESH WATER	ALL SEASONS	
FISH SIZE	DA-MON		FRESH WATER	ALL SEASONS	
IRRIGATION EXTENT	MON		FRESH WATER		L-160
LAND COVER TYPE	2/MON OR AS NE*		FRESH WATER	ALL SEASONS	
PH-BALANCE	4/YR-DECADES		FRESH WATER	ALL SEASONS	
PHYTOPLANKTON EXTENT	MON-YR		FRESH WATER	ALL SEASONS	L-160
RADIOCATIVE NUCLIDES EXTENT	MON OR ONCE		FRESH WATER	ALL SEASONS	
ROCK TYPE	1/5 YR		FRESH WATER	ALL SEASONS	L-160
SALINITY	4/YR-DECADES		FRESH WATER	ALL SEASONS	SOIL
SALINITY	2/MON		FRESH WATER	ALL SEASONS	L-160
SATURATION OF VADOSE ZONE	MON		FRESH WATER	ALL SEASONS	
SEDIMENTATION RATE	MON		FRESH WATER	ALL SEASONS	
SOIL MOISTURE	HR-YR		FRESH WATER	ALL SEASONS	
SOIL/ROCK COMPOSITION	4/YR-DECADES		FRESH WATER	ALL SEASONS	
SURFACE WATER TEMP	DA		FRESH WATER	ALL SEASONS	
TOPSOIL TRANSPORT	4/YR		FRESH WATER	ALL SEASONS	
TURBIDITY	MON-YR		FRESH WATER	ALL SEASONS	
VERT WATER TEMP PROF	MON		FRESH WATER	ALL SEASONS	L-160
WATER EXTENT	YR		FRESH WATER	ALL SEASONS	FRESH/OCEAN
WATER EXTENT	MON		FRESH WATER	ALL SEASONS	L-160
ZOOPLANKTON EXTENT	MON-YR		FRESH WATER	ALL SEASONS	RED TIDE

DISCIPLINE TITLE - WATER QUALITY
 APPLICATION TITLE - LAKE CLASSIFICATION RESEARCH
 SUBAPPLICATION TITLE - OLIGOTROPHIC LAKES
 TREE - 3. 2. 1. 4. 1

PARAMETER	REFER.	DES. ACCUR.	BASD ACCUR.	ACCUR. UNITS	LOW HORIZ RESOL	HIGH HORIZ RESOL	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL.	VERT RESOL UNITS	FRESHNESS
DISSOLVED NUTRIENTS	L-102										
DISSOLVED NUTRIENTS	L-167										
OXYGEN	L-167				10 0	50 0	M				
OXYGEN	L-102				50.	50.	M				
PHYTOPLANKTON LEVEL	L-102										
PHYTOPLANKTON LEVEL	L-167				50.	5000.	M				
SEDIMENT	L-102										
SEDIMENT	L-167				20.	2.	KM				
VEGETATIVE PATTERNS	L-102				50	100.	M				
VEGETATIVE PATTERNS	L-167										
WATER CLARITY	L-102										
WATER DEPTH	L-102										
WATER DEPTH	L-167				20.	50.	M				

DISCIPLINE TITLE - WATER QUALITY
 APPLICATION TITLE - LAKE CLASSIFICATION RESEARCH
 SUBAPPLICATION TITLE - OLIGOTROPHIC LAKES
 TREE - 3.2.1 4 1

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
DISSOLVED NUTRIENTS	YR-MON		LAKE AREA	LATE AUGUST	
DISSOLVED NUTRIENTS	4/YR-MON		LAKE AREA		
OXYGEN			LAKE AREA		
OXYGEN			LAKE AREA		HIGH CONCEN
PHYTOPLANKTON LEVEL	YR-MON		LAKE AREA	LATE AUGUST	
PHYTOPLANKTON LEVEL			LAKE AREA		
SEDIMENT	4/YR TO 1/10 YR		LAKE AREA		
SEDIMENT	4/YR-YR		LAKE AREA		
VEGETATIVE PATTERNS			LAKE AREA		
VEGETATIVE PATTERNS			LAKE AREA		
WATER CLARITY			LAKE AREA		
WATER DEPTH			LAKE		CLEAR WATER
WATER DEPTH	YR-MON		LAKE AREA		DEEP WATER

DISCIPLINE TITLE - WATER QUALITY
APPLICATION TITLE - LAKE CLASSIFICATION RESEARCH
SUBAPPLICATION TITLE - HARDWATER MARL LAKES
TREE - 3 2. 1. 4. 2

[illegible]

DISCIPLINE TITLE - WATER QUALITY
 APPLICATION TITLE - LAKE CLASSIFICATION RESEARCH
 SUBAPPLICATION TITLE - HARDWATER MARL LAKES
 TREE - 3.2 1.4 2

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
ALGAE CONCEN			LAKE AREA	LAKE AUGUST	LIMITED ALGAE
ALGAE CONCEN	YR-MON		LAKE AREA		
IRON			LAKE AREA		
MACROPHYTE TYPE			LAKE AREA		
MANGANESE			LAKE AREA		
ORGANIC CARBON IN WATER			LAKE AREA		SMALL PORTION
PHOSPHORUS			LAKE AREA		LARGE INPUTS

DISCIPLINE TITLE - WATER QUALITY
APPLICATION TITLE - LAKE CLASSIFICATION RESEARCH
SUBAPPLICATION TITLE - EUTROPHIC LAKES
TREE - 3.2.1.4.3
PARAMETER -

[illegible]

DISCIPLINE TITLE - WATER QUALITY
 APPLICATION TITLE - LAKE CLASSIFICATION RESEARCH
 SUBAPPLICATION TITLE - EUTROPHIC LAKES
 TREE - 3.2.1.4.3

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
ALGAE CONCEN			LAKE AREA	LATE AUGUST	LARGE INPUTS
ALGAE CONCEN	YR-MON		LAKE AREA		
DISSOLVED NUTRIENTS			LAKE AREA	LATE AUGUST	LARGE INPUTS
DISSOLVED NUTRIENTS	YR-MON				
MACROPHYTE DENSITY			LAKE AREA	LATE AUGUST	
ORGANIC CARBON IN WATER			LAKE AREA		HIGH INPUTS
OXYGEN	4/YR-MON		LAKE AREA		SMALL INPUTS
OXYGEN	1/10YR-4/YR		LAKE AREA		
SEDIMENT			LAKE AREA		
WET BIOMASS			LAKE AREA	LATE AUGUST	

DISCIPLINE TITLE - WATER QUALITY
 APPLICATION TITLE - POLLUTANT EFFECTS ON BIOPROCESSES
 SUBAPPLICATION TITLE - GLOBAL SERVICES SATELLITE
 TREE - 3.3 1.1.3

PARAMETER	REFER.	DES ACCUR.	BASED ACCUR	ACCUR. UNITS	LOW HORIZ RESOL.	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL	HIGH VERT RESOL.	VERT RESOL UNITS	FRESHNESS
CURRENT BOUNDARY	L-167				50.0	50.0	M				
DISSOLVED GASSES	L-167	10.0	50.0	M	50.0	50.0	M				
DISSOLVED NUTRIENTS	L-167	10.0	10.0	M	50.0	50.0	M				
DRAINAGE PATTERNS	L-167	20.0	50.0	M	50.0	50.0					
METAL TYPE	L-167	10.0	50.0	M	50.0	50.0					
ORGANIC MATERIALS	L-167				20.0	50.0	M				
PHYTOPLANKTON LEVEL	L-167				0.05	5.0	KM				
PHYTOPLANKTON TYPE	L-167				0.05	5.0	KM				
SURFACE WATER TEMP	L-161	0.1	1.0	DEG C	200.0	500.0	M				
SUSPENDED PARTICLE CONCEN	L-160										
TURBIDITY	L-162		0.01	PPM	0.05	1.0	KM				
WATER DEPTH	L-167	0.1	1.0	M	20.0	50.0	M	0.1	1.0		
WETLAND EXTENT	L-167	50.0	100.0	M	50.0	50.0					
ZOOPLANKTON LEVEL	L-167				0.05	5.0	KM				
ZOOPLANKTON TYPE	L-167				0.05	5.0	KM				

DISCIPLINE TITLE - WATER QUALITY
 APPLICATION TITLE - POLLUTANT EFFECTS ON BIOPROCESSES
 SUBAPPLICATION TITLE - GLOBAL SERVICES SATELLITE
 TREE - 3.3.1.1.3

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
CURRENT BOUNDARY	4/YR		GLOBAL	ALL SEASONS	
DISSOLVED GASSES	YR-4/YR		OPEN WATER		
DISSOLVED NUTRIENTS	YR-MON		OPEN WATER		
DRAINAGE PATTERNS	YR-MON		OPEN WATER		
METAL TYPE	YR-MON		OPEN WATER		
ORGANIC MATERIALS	YR		OPEN WATER		
PHYTOPLANKTON LEVEL	DA-MON		GLOBAL	ALL SEASONS	
PHYTOPLANKTON TYPE	DA-MON		GLOBAL	ALL SEASONS	
SURFACE WATER TEMP	3 DA-DA		OPEN WATER		
SUSPENDED PARTICLE CONCEN			OPEN WATER		
TURBIDITY	MON-4/DA		GLOBAL	ALL SEASONS	
WATER DEPTH	MON		OPEN WATER		
WETLAND EXTENT	YR-MON		OPEN WATER		
ZOOPLANKTON LEVEL	DA-MON		GLOBAL	ALL SEASONS	
ZOOPLANKTON TYPE	DA-MON		GLOBAL	ALL SEASONS	

WATER

DISCIPLINE TITLE - WATER QUALITY
APPLICATION TITLE - LAKE CLASSIFICATION RESEARCH
SUBAPPLICATION TITLE - ASSESSMENT OF LAKE TROPIC STATES
TREE - 3 2 1 4 4

[illegible]

DISCIPLINE TITLE - WATER QUALITY
 APPLICATION TITLE - LAKE CLASSIFICATION RESEARCH
 SUBAPPLICATION TITLE - ASSESSMENT OF LAKE TROPIC STATES
 TREE - 3.2 1.4.4

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
ALGAE CONCEN				LATE AUGUST	
ALGAE CONCEN	YR-MON				
DISSOLVED NUTRIENTS				LAKE AUGUST	
DISSOLVED NUTRIENTS	1/YR-MON				
IRON					
MACROPHYTE DENSITY					
MACROPHYTE TYPE					
MANGANESE					
NON-SOIL RESIDUALS					
ORGANIC CARBON IN WATER					
ORGANIC MATERIALS					
OXYGEN					
OXYGEN	YR-MON				
PHOSPHORUS					
PHYTOPLANKTON LEVEL				LATE AUGUST	
PHYTOPLANKTON LEVEL	YR-MON				
SEDIMENT					
SEDIMENT	YR-MON				
VEGETATIVE PATTERNS					
VEGETATIVE PATTERNS	YR-4/YR				
WATER CLARITY					
WATER DEPTH					
WATER DEPTH	YR-MON				
WET BIOMASS					

DISCIPLINE TITLE - WATER QUALITY
 APPLICATION TITLE - LAKE CLASSIFICATION RESEARCH
 SUBAPPLICATION TITLE - BOG-DYSTROPHIC LAKES
 TREE - 3. 2. 1. 4. 5

PARAMETER	REFER.	DES ACCUR	BASED ACCUR	ACCUR UNITS	LOW HORIZ RESOL	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL.	VERT RESOL UNITS	FRESHNESS
DISSOLVED NUTRIENTS	L-102										
DISSOLVED NUTRIENTS	L-167				10. 0	50 0	M				
NON-SOIL RESIDUALS	L-102										
ORGANIC MATERIALS	L-102										
PHYTOPLANKTON LEVEL	L-102										
PHYTOPLANKTON LEVEL	L-167				0. 05	5. 0	KM				
VEGETATIVE PATTERNS	L-102										
VEGETATIVE PATTERNS	L-167				0 05	2. 0	KM				

DISCIPLINE TITLE - WATER QUALITY
 APPLICATION TITLE - LAKE CLASSIFICATION RESEARCH
 SUBAPPLICATION TITLE - BOG-DYSTROPHIC LAKES
 TREE - 3.2 1.4.5

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
DISSOLVED NUTRIENTS			LAKE AREA	LATE AUGUST	
DISSOLVED NUTRIENTS	MON-YR		LAKE AREA		
NON-SOIL RESIDUALS			LAKE AREA		
ORGANIC MATERIALS			LAKE AREA		
PHYTOPLANKTON LEVEL			LAKE AREA	LATE AGUST	
PHYTOPLANKTON LEVEL	1-4/YR		LAKE AREA		
VEGETATIVE PATTERNS			LAKE AREA		
VEGETATIVE PATTERNS	1-4/YR		LAKE AREA		

DISCIPLINE TITLE - WATER QUALITY
 APPLICATION TITLE - OIL SPILL AND WASTE MONITORING
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 3 2 2.1

PARAMETER	REFER.	DES ACCUR	BASED ACCUR	ACCUR UNITS	LOW HORIZ RESOL	HIGH HORIZ RESOL	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL.	VERT RESOL UNITS	FRESHNESS
CURRENT DIRECTION	L-160	5 0	10 0	DEG	1 0	100 0	KM				
CURRENT VELOCITY	L-160	115 0		CM/S	1 0	100 0	KM				
DIFFUSION RATE	L-0				0 05	2 0	KM				DA-HR
EVAPORATION RATE	L-160	100 0		W/CM2	500 0	500 0					
OCEAN SURFACE VELOCITY PROF	L-160	0 1	1 0	DEG/C*	0 01	10 0	KM				HR
OCEAN SURFACE WIND SPEED	L-0	0 1	1 0	DEG/C*	0 05	2 0	KM				
OIL DENSITY	L-160				0 05	2 0	KM				
OIL DISTRIBUTION	L-160				0 05	2 0	KM				
OIL THICKNESS	L-160				0 05	2 0	KM				
PESTICIDE POLLUTANT EXTENT	L-160				0 5	100 0	M				
PESTICIDE POLLUTANT EXTENT	L-2		0 1	G/M3	0 5	0 5	M				MON
PESTICIDE POLLUTANT TYPE	L-160				0 5	100 0	M				
PESTICIDE POLLUTANT TYPE	L-2		0 1	G/M3	0 5	0 5	M				MON
PETROLEUM POLLUTANT EXTENT	L-0				0 05	2 0	KM				
RADIOACTIVE WASTE EXTENT	L-160				50 0	50 0	M				
RADIOACTIVE WASTE EXTENT	L-2										DA
RADIOACTIVE WASTE STRENGTH	L-160				50 0	50 0	M				DA
RADIOACTIVE WASTE STRENGTH	L-2										
RADIOACTIVE WASTE TYPE	L-160				50 0	50 0	M				DA
RADIOACTIVE WASTE TYPE	L-2										HR
SEA SURFACE TEMP	L-160	0 1	1 0	DEG C	1 0	500 0	KM				DA
SEWAGE WASTES	L-160				20 0	100 0	M				
SEWAGE WASTES	L-2										DA
TURBIDITY	L-160	0 01		PPM	0 05	1 0	KM				

DISCIPLINE TITLE - WATER QUALITY
 APPLICATION TITLE - OIL SPILL AND WASTE MONITORING
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 3 2 2.1

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
CURRENT DIRECTION	DA-HR		OPEN WATER	ALL SEASONS	
CURRENT VELOCITY			OPEN WATER	ALL SEASONS	
DIFFUSION RATE	HR-DA		OPEN WATER	ALL SEASONS	
EVAPORATION RATE	MON		OPEN WATER	ALL SEASONS	OCEAN
OCEAN SURFACE VELOCITY PROF	HR		OPEN WATER	ALL SEASONS	
OCEAN SURFACE WIND SPEED	4/DA-DA		OPEN WATER	ALL SEASONS	SHEAR
OIL DENSITY	MON-DA		OPEN WATER	ALL SEASONS	FISH OIL
OIL DISTRIBUTION	MON-DA		OPEN WATER	ALL SEASONS	FISH OIL
OIL THICKNESS	MON-DA		OPEN WATER	ALL SEASONS	FISH OIL
PESTICIDE POLLUTANT EXTENT	WK		OPEN WATER	ALL SEASONS	
PESTICIDE POLLUTANT EXTENT			OPEN WATER	ALL SEASONS	
PESTICIDE POLLUTANT TYPE	WK		OPEN WATER	ALL SEASONS	
PESTICIDE POLLUTANT TYPE			OPEN WATER	ALL SEASONS	
PETROLEUM POLLUTANT EXTENT	HR-DA		OPEN WATER	ALL SEASONS	
RADIOACTIVE WASTE EXTENT	MON		OPEN WATER	ALL SEASONS	
RADIOACTIVE WASTE EXTENT	MON		OPEN WATER	ALL SEASONS	
RADIOACTIVE WASTE STRENGTH	MON		OPEN WATER	ALL SEASONS	
RADIOACTIVE WASTE STRENGTH	MON		OPEN WATER	ALL SEASONS	
RADIOACTIVE WASTE TYPE	MON		OPEN WATER	ALL SEASONS	
RADIOACTIVE WASTE TYPE	MON		OPEN WATER	ALL SEASONS	
SEA SURFACE TEMP	DA-HR		OPEN WATER	ALL SEASONS	
SEWAGE WASTES	WK		OPEN WATER	ALL SEASONS	
SEWAGE WASTES	MON		OPEN WATER	ALL SEASONS	
TURBIDITY	MON-4/DA		OPEN WATER	ALL SEASONS	WATER

DISCIPLINE TITLE - WATER QUALITY
 APPLICATION TITLE - POLLUTION CONTROL
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 3.2.3.1

PARAMETER	REFER	DES ACCUR	BASED ACCUR	ACCUR UNITS	LOW HORIZ RESOL	HIGH HORIZ RESOL	HORIZ RES UNITS	LOW VERT RESOL	HIGH VERT RESOL	VERT RESOL UNITS	FRESHNESS
PESTICIDE POLLUTANT TYPE	L-2		0 1	G/M3	0 5	0 5	M				
PESTICIDE POLLUTANT TYPE	L-160				0 5	100 0	M				
PHYTOPLANKTON LEVEL	L-2		10 0	%	50 0	50 0	M				1/2 DA
PHYTOPLANKTON LEVEL	L-160				0 05	5 0	KM				
PHYTOPLANKTON TYPE	L-160				0 05	5 0	KM				
PHYTOPLANKTON TYPE	L-2		10 0	%	50 0	50 0	M				
RADIOACTIVE WASTE STRENGTH	L-160				50 0	50 0	M				
RADIOACTIVE WASTE TYPE	L-160				50 0	50 0	M				
RADIOACTIVE WASTE TYPE	L-160				50 0	50 0	M				
SEWAGE WASTES	L-2										DA
SEWAGE WASTES	L-160				20 0	100 0	M				
SUSPENDED PARTICLE CONCEN	L-2		0 1	PPM	50	50	M				DA
SUSPENDED PARTICLE CONCEN	L-160				05	1	KM				
ZOOPLANKTON LEVEL	L-2				50 0	50 0	M				NRT
ZOOPLANKTON LEVEL	L-160				0 05	5 0	KM				
ZOOPLANKTON TYPE	L-2				50 0	50 0	M				NRT
ZOOPLANKTON TYPE	L-160				0 05	5 0	KM				

DISCIPLINE TITLE - WATER QUALITY
 APPLICATION TITLE - POLLUTION CONTROL
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 3.2 3.1

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
PESTICIDE POLLUTANT TYPE	DA-MON		GLOBAL	ALL SEASONS	
PESTICIDE POLLUTANT TYPE	MON		GLOBAL	ALL SEASONS	
PHYTOPLANKTON LEVEL	DA			ALL SEASONS	
PHYTOPLANKTON LEVEL	MON-DA		GLOBAL	ALL SEASONS	
PHYTOPLANKTON TYPE	MON-DA		GLOBAL	ALL SEASONS	
PHYTOPLANKTON TYPE	DA		GLOBAL	ALL SEASONS	
RADIOACTIVE WASTE STRENGTH	YR-MON		GLOBAL	ALL SEASONS	
RADIOACTIVE WASTE TYPE	YR-MON		GLOBAL	ALL SEASONS	L-2
RADIOACTIVE WASTE TYPE	YR-MON		GLOBAL	ALL SEASONS	L-2
SEWAGE WASTES	DA		GLOBAL	ALL SEASONS	
SEWAGE WASTES	YR-MON		GLOBAL	ALL SEASONS	
SUSPENDED PARTICLE CONCEN	MON-WK		GLOBAL	ALL SEASONS	
SUSPENDED PARTICLE CONCEN	4/DA-MON		GLOBAL	ALL SEASONS	
ZOOPLANKTON LEVEL	DA		GLOBAL	ALL SEASONS	
ZOOPLANKTON LEVEL	MON-DA		GLOBAL	ALL SEASONS	
ZOOPLANKTON TYPE	DA		GLOBAL	ALL SEASONS	
ZOOPLANKTON TYPE	DA		GLOBAL	ALL SEASONS	

DISCIPLINE TITLE - WATER QUALITY
APPLICATION TITLE - HAZARDOUS WATER POLLUTION WARNING
SUBAPPLICATION TITLE - NO TITLE
TREE - 3.2.3.2

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
DIFFUSION RATE					
DRAINAGE PATTERNS					
LAND COVER TYPE					
POLLUTANT CONCEN					
POLLUTANT LOCATION					
POLLUTANT TYPE					
WATER FLOW RATE					

DISCIPLINE TITLE - WATER QUALITY
 APPLICATION TITLE - POLLUTANT EFFECTS ON BIOPROCESSES
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 3.3 1.1

PARAMETER	REFER	DES ACCUR.	BASED ACCUR	ACCUR UNITS	LOW HORIZ RESOL	HIGH HORIZ RESOL	HORIZ RES UNITS	LOW VERT RESOL	HIGH VERT RESOL	VERT RESOL UNITS	FRESHNESS
CHLOROPHYLL	L-1	0 3	1 0	MICRO*							DA
CURRENT VELOCITY	L-1	10 0		DEG							DA
CURRENT VELOCITY	L-0										
DISSOLVED GASSES	L-1				20 0	200 0	KM				DA
DISSOLVED NUTRIENTS	L-1				20 0	200 0	KM				DA
PETROLEUM POLLUTANT EXTENT	L-0				20 0	20 0	KM				DA
PHYTOPLANKTON LEVEL	L-1										DA
PHYTOPLANKTON TYPE	L-1				20 0	200 0	KM				DA
POLLUTANT CONCEN	L-0										DA
POLLUTANT TYPE	L-0										DA
SALINITY	L-1	0 005	0 01	PPT							DA
SURFACE WATER TEMP	L-1	0 25	1. 0	DEG C							DA
TURBIDITY	L-1				20 0	200 0	KM				DA

DISCIPLINE TITLE - WATER QUALITY
 APPLICATION TITLE - POLLUTANT EFFECTS ON BIOPROCESSES
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 3 3 1.1

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
CHLOROPHYLL	DA	MON-YR	GLOBAL	ALL SEASONS	
CURRENT VELOCITY	DA	MON-YR		ALL SEASONS	
CURRENT VELOCITY		MON-YR	GLOBAL	ALL SEASONS	
DISSOLVED GASSES	DA	MON-YR	GLOBAL	ALL SEASONS	DA, BA-TBD
DISSOLVED NUTRIENTS	DA	MON-YR	GLOBAL	ALL SEASONS	DA, BA-TBD
PETROLEUM POLLUTANT EXTENT		MON-YR	GLOBAL	ALL SEASONS	DA, BA-TBD
PHYTOPLANKTON LEVEL	DA	MON-YR	GLOBAL	ALL SEASONS	DA, BA-TBD
PHYTOPLANKTON TYPE	DA	MON-YR	GLOBAL	ALL SEASONS	DA, BA-TBD
POLLUTANT CONCEN	DA	MON-YR	GLOBAL	ALL SEASONS	
POLLUTANT TYPE	DA	MON-YR	GLOBAL	ALL SEASONS	
SALINITY	DA	MON-YR	GLOBAL	ALL SEASONS	WATER
SURFACE WATER TEMP		MON-YR	GLOBAL	ALL SEASONS	
TURBIDITY	DA	MON-YR	GLOBAL	ALL SEASONS	DA, BA-TBD

DISCIPLINE TITLE - WATER QUALITY
 APPLICATION TITLE - POLLUTANT EFFECTS ON BIOPROCESSES
 SUBAPPLICATION TITLE - GLOBAL SERVICES SATELLITE
 TREE - 3.3.1.1.1

PARAMETER	REFER	DES ACCUR	BASED ACCUR	ACCUR UNITS	LOW HORIZ RESOL.	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL.	VERT RESOL UNITS	FRESHNESS
CHLOROPHYLL	L-162	0.3		MICRO*	400.0	400.0	M				1DA
CURRENT VELOCITY	L-162	2.0	10.0	CM/S	50.0	50.0	KM	1.0	100.0	KM	DA
DISSOLVED GASSES	L-167				50.0	50.0	M				MON
DISSOLVED NUTRIENTS	L-167				50.0	50.0	M				1MON
PETROLEUM POLLUTANT EXTENT	L-167				10.0	40.0	M				1 MON
PHYTOPLANKTON LEVEL	L-167				0.05	5.0	KM				
PHYTOPLANKTON TYPE	L-167				0.05	5.0	KM				
POLLUTANT CONCEN	L-167				10.0	40.0	M				1 MON
POLLUTANT TYPE	L-167				10.0	40.0	M				1MON
SALINITY	L-167	0.05		PPT	5.0	5.0	KM				2 WK
SURFACE WATER TEMP	L-162	0.25	0.5	DEG C	5.0	100.0	KM				1HR
TURBIDITY	L-162	0.01		PPM	400.0	400.0	M				6HR

DISCIPLINE TITLE - WATER QUALITY
 APPLICATION TITLE - POLLUTANT EFFECTS ON BIOPROCESSES
 SUBAPPLICATION TITLE - GLOBAL SERVICES SATELLITE
 TREE - 3.3 1.1.1

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
CHLOROPHYLL	MON-DA		GLOBAL	ALL SEASONS	
CURRENT VELOCITY	MON-DA		GLOBAL	ALL SEASONS	
DISSOLVED GASSES	YR-MON		GLOBAL	ALL SEASONS	
DISSOLVED NUTRIENTS	MON-YR		GLOBAL	ALL SEASONS	
PETROLEUM POLLUTANT EXTENT	YR-MON		GLOBAL	ALL SEASONS	
PHYTOPLANKTON LEVEL	DA-MON		GLOBAL	ALL SEASONS	
PHYTOPLANKTON TYPE	DA-MON		GLOBAL	ALL SEASONS	
POLLUTANT CONCEN	1/3 MON-MON		GLOBAL	ALL SEASONS	
POLLUTANT TYPE	1/3 MON-MON		GLOBAL	ALL SEASONS	
SALINITY	YR-2/MON		GLOBAL	ALL SEASONS	
SURFACE WATER TEMP	DA-HR		GLOBAL	ALL SEASONS	WATER
TURBIDITY	MON-4/DA		GLOBAL	ALL SEASONS	WATER

DISCIPLINE TITLE - WATER QUALITY
 APPLICATION TITLE - POLLUTANT EFFECTS ON BIOPROCESSES
 SUBAPPLICATION TITLE - MAPPING OF WATER QUALITY USING MULTISPECTRAL DATA
 TREE - 3.3.1.1.2

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
CHLORIDES	18 DA	YR	ON SITE	8-11 HR/RT	
CONDUCTIVITY	18 DA	YR	ON SITE	8-11 HR/RT	
CURRENT BOUNDARY	18 DA	YR	ON SITE	8-11 HR/RT	
DISSOLVED GASSES	18 DA	YR	ON SITE	8-11 HR/RT	
DISSOLVED NUTRIENTS	18 DA	YR	ON SITE	8-11 HR/RT	
DRAINAGE PATTERNS	18 DA	YR	10,060 KMSQ	8-11 HR/RT	SAGINAW RIVER
METAL TYPE	18 DA	YR	ON SITE	8-11 HR/RT	
ORGANIC MATERIALS	18 DA	YR	ON SITE	8-11 HR/RT	
PH-BALANCE	18 DA	YR	ON SITE	8-11 HR/RT	
PHYTOPLANKTON LEVEL	18 DA	YR	ON SITE	8-11 HR/RT	
PHYTOPLANKTON TYPE	18 DA	YR	ON SITE	8-11 HR/RT	
SUSPENDED PARTICLE CONCEN	18 DA	YR	ON SITE	8-11 HR/RT	
TURBIDITY	18 DA	YR	ON SITE	8-11 HR/RT	
WATER CLARITY	18 DA	YR	ON SITE	8-11 HR/RT	
WATER DEPTH	18 DA	YR		8-11 HR/RT	WATER SECCHI DEPTH
WATER TEMP PROF	18 DA	YR	ON-SITE	8-11 HR/RT	
WETLAND EXTENT	18 DA	YR	2,960 KM2	8-11 HR/RT	
ZOOPLANKTON LEVEL	18 DA	YR	ON SITE	8-11 HR/RT	
ZOOPLANKTON TYPE	18 DA	YR	ON SITE	8-11 HR/RT	

Coastal Zone Applications
Data Sheets

DISCIPLINE TITLE - COASTAL ZONE
 APPLICATION TITLE - COASTAL ENVIRONMENT MAPPING
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 4.1.1

PARAMETER	REFER.	DES. ACCUR	BASED ACCUR.	ACCUR UNITS	LOW HORIZ RESOL.	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL.	VERT RESOL UNITS	FRESHNESS
COLOR, TONAL PATTERNS	L-2										
CURRENT LOCATION	L-2				.01	10	KM				3 HR-DA
CURRENT VELOCITY	L-2				.01	10	KM				3 HR-DA
DRAINAGE PATTERNS	Z-10										
EROSION RATE	L-2										
LAND COVER TYPE	Z-11		70.0	%	25.0	100.0	M				MON
LAND COVER TYPE	Z-10										
LEAF AREA INDEX	L-2										
PLANT TYPE	L-2										
RUNOFF RATE	L-2										
RUNOFF VOLUME	L-2										
SALINITY	L-2										
SALINITY	Z-10										
SEDIMENT	L-2										
TIDAL EFFECTS	Z-10										
TIDAL RANGE	L-2										
VEGETATIVE COVER TYPE	Z-12		85.0	%	50.0	100.0	M				
VEGETATIVE COVER TYPE	Z-12		75.0	%	10.0	15.0	M				
VEGETATIVE COVER TYPE	Z-11		70.0	%	25.0	100.0	M				MON
VEGETATIVE TYPE	Z-10				25.0	100.0	M				
WATER LOCATION	Z-12		70.	%	50.	100.0	M				
WATER LOCATION	Z-12		75.0	%	10.0	15.0					
WATER LOCATION	Z-11		90.0	%	25.0	100.0	M				MON
WETLAND EXTENT	L-2										
WETLAND EXTENT	Z-10										
WETLAND EXTENT	Z-12		89.0	%	50.0	100.0	M				
WETLAND EXTENT	Z-12		61.0		10.0	15.0	M				

DISCIPLINE TITLE - COASTAL ZONE
 APPLICATION TITLE - COASTAL ENVIRONMENT MAPPING
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 4.1.1

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
COLOR, TONAL PATTERNS					WATER COLOR
CURRENT LOCATION	4-10 DA			ALL SEASONS	
CURRENT VELOCITY	4-10 DA			ALL YR	
DRAINAGE PATTERNS			LOCAL, REGIONAL		SALINE, LS, BRACKISH, OR FRESH
EROSION RATE					
LAND COVER TYPE			LOCAL	LATE SUMMER	L/S
LAND COVER TYPE			LOCAL, REGIONAL		L-S
LEAF AREA INDEX					
PLANT TYPE					
RUNOFF RATE					
RUNOFF VOLUME					
SALINITY					
SALINITY			LOCAL, REGIONAL		L-S
SEDIMENT					
TIDAL EFFECTS			LOCAL, REGIONAL		L-S
TIDAL RANGE					
VEGETATIVE COVER TYPE			LOCAL	WINTER	6 CLASSES, L/S
VEGETATIVE COVER TYPE			LOCAL	WINTER	AIRBORNE MSS, 6 CLASSES
VEGETATIVE COVER TYPE			LOCAL	LATE SUMMER	L/S
VEGETATIVE TYPE			LOCAL, REGIONAL	WINTER, EARLY SPRING	L-S
WATER LOCATION			LOCAL	WINTER	RIVER/LAKE, L/S
WATER LOCATION			LOCAL	WINTER	AIRBORNE
WATER LOCATION			LOCAL	LATE SUMMER	L/S
WETLAND EXTENT					
WETLAND EXTENT			LOCAL, REGIONAL		L-S
WETLAND EXTENT			LOCAL	WINTER	L/S
WETLAND EXTENT			LOCAL	WINTER	AIRBORNE MSS

DISCIPLINE TITLE - COASTAL ZONE
APPLICATION TITLE - COASTAL ENVIRONMENT MAPPING
SUBAPPLICATION TITLE - CORAL REEF MONITORING
TREE - 4 1.2

[illegible]

DISCIPLINE TITLE - COASTAL ZONE
 APPLICATION TITLE - COASTAL ENVIRONMENT MAPPING
 SUBAPPLICATION TITLE - CORAL REEF MONITORING
 TREE - 4 1.2

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
OCEAN SURFACE CURRENT AMP					
OCEAN SURFACE CURRENT DIR					
OCEAN SURFACE ROUGHNESS					
SEDIMENT	DA-WK			DEPTH/SHORELINE 2 WEEKS	
TERRAIN TYPE				STORM SURGES: 5-1 DAY DURING, 1 DAY	SUBSURFACE
WATER DEPTH				ALL YEAR	
WATER TEMP PROF					

DISCIPLINE TITLE - COASTAL ZONE
 APPLICATION TITLE - COASTAL ENVIRONMENT MAPPING
 SUBAPPLICATION TITLE - TIDAL WETLAND ASSESSMENT
 TREE - 4.1.3

PARAMETER	REFER	DES ACCUR.	BASED ACCUR	ACCUR UNITS	LOW HORIZ RESOL.	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL.	VERT RESOL UNITS	FRESHNESS
CURRENT LOCATION	L-2				.01	10.	KM				3 HR-DA
CURRENT VELOCITY	L-2				.01	10.	KM				3 HR-DA
DRAINAGE PATTERNS	Z-10										
EROSION RATE	L-2										
LAND COVER TYPE	Z-3		75.0	%	0 12	0 12	HACRES				
LAND COVER TYPE	Z-10										
LAND COVER TYPE	Z-11		70.0	%	25.0	100.0	M				MON
LEAF AREA INDEX	L-3	90.		%	5.	50.	M				
PLANT DENSITY	L-3	90.		%	5.	50.	M				
PLANT TYPE	L-3	90.		%	5.	50.	M				
RUNOFF RATE	L-3										
RUNOFF VOLUME	L-3										
SALINITY	L-3										
SALINITY	Z-10										
SEDIMENT	L-3	90.		%	15	100.	M				
TIDAL EFFECTS	Z-10										
TIDAL RANGE	L-2										
VEGETATIVE COVER TYPE	Z-11		70.0	%	25.0	100.0	M				MON
VEGETATIVE TYPE	Z-10				25.0	100.0					
WATER LOCATION	Z-3		75.0	%	0 12	0 12	HACRES				
WATER LOCATION	Z-11		90.0	%	25.0	100.0	M				MON
WETLAND EXTENT	L-2	95.		%	10	100.	M				
WETLAND EXTENT	Z-3		55.0	%	0.12	0.12	HACRES				
WETLAND EXTENT	Z-10										
WETLAND TYPE	Z-3		45.0	%	0.12	0.12	HACRES				

DISCIPLINE TITLE - COASTAL ZONE
 APPLICATION TITLE - COASTAL ENVIRONMENT MAPPING
 SUBAPPLICATION TITLE - TIDAL WETLAND ASSESSMENT
 TREE - 4 1 3

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
CURRENT LOCATION	4-10/DA			ALL YEAR	
CURRENT VELOCITY	4-10 TIMES DA			ALL YEAR	
DRAINAGE PATTERNS			LOCAL, REGIONAL		SALINE, BRACKISH, FRESH, L-S
EROSION RATE					
LAND COVER TYPE			LOCAL	SPRING	
LAND COVER TYPE			LOCAL, REGIONAL		L-S
LAND COVER TYPE			LOCAL	LATE SUMMER	L/S
LEAF AREA INDEX					
PLANT DENSITY					
PLANT TYPE					
RUNOFF RATE					
RUNOFF VOLUME					
SALINITY					
SALINITY			LOCAL REGIONAL		L-S
SEDIMENT					
TIDAL EFFECTS			LOCAL, REGIONAL		L-S
TIDAL RANGE					
VEGETATIVE COVER TYPE			LOCAL	LATE SUMMER	L/S
VEGETATIVE TYPE			LOCAL, REGIONAL	WINTER, EARLY SPRING	L-S
WATER LOCATION			LOCAL	SPRING	
WATER LOCATION			LOCAL	LATE SUMMER	L/S
WETLAND EXTENT					
WETLAND EXTENT			LOCAL	SPRING	
WETLAND EXTENT			LOCAL, REGIONAL		L-S
WETLAND TYPE			LOCAL	SPRING	

DISCIPLINE TITLE - COASTAL ZONE
APPLICATION TITLE - COASTAL ENVIRONMENT MAPPING
SUBAPPLICATION TITLE - FLOOD PRONE AREA MAPPING/MONITORING
TREE - 4.1.4

[illegible]

DISCIPLINE TITLE - COASTAL ZONE
 APPLICATION TITLE - COASTAL ENVIRONMENT MAPPING
 SUBAPPLICATION TITLE - FLOOD PRONE AREA MAPPING/MONITORING
 TREE - 4.1.4

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
CURRENT LOCATION	4-10/DA			ALL YEAR	
CURRENT LOCATION	4-10/DA			ALL YEAR	
CURRENT VELOCITY					
CURRENT VELOCITY	4-10/DA			ALL YEAR	
DRY BIOMASS					
EROSION RATE					
EROSION RATE					
FLOOD EXTENT					
FLOOD EXTENT					
OCEAN WAVE DIR					
OCEAN WAVE DIR					
OCEAN WAVE FORCE					
OCEAN WAVE FORCE					
OCEAN WAVE HEIGHT					
OCEAN WAVE HEIGHT					
OCEAN WAVE LENGTH					
OCEAN WAVE LENGTH					
SEDIMENT					
SEDIMENT					
SLOPE, RELIEF					
SLOPE, RELIEF					
TERRAIN TYPE					
TERRAIN TYPE					
WET BIOMASS					

DISCIPLINE TITLE - COASTAL ZONE
 APPLICATION TITLE - COASTAL ENVIRONMENT MAPPING
 SUBAPPLICATION TITLE - ENVIRONMENTAL INFERENCE MAPPING
 TREE - 4.1.5

PARAMETER	REFER.	DES ACCUR.	BASED ACCUR.	ACCUR UNITS	LOW HORIZ RESOL	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL.	VERT RESOL UNITS	FRESHNESS
DRAINAGE PATTERNS	Z-10										
LAND COVER TYPE	Z-10										
LAND COVER TYPE	Z-3		75.0	%	75.0	0.12	HACRES				
PLANT TYPE	L-157										
SALINITY	L-157										
SALINITY	Z-10										
TIDAL EFFECTS	Z-10										
VEGETATIVE TYPE	Z-10										
WATER LOCATION	Z-3		75.0	%	25.0 0.12	100.0 0.12	M HACRES				
WETLAND EXTENT	L-157										
WETLAND EXTENT	Z-10										
WETLAND EXTENT	Z-3		55.0	%	0.12	0.12	HACRES				
WETLAND TYPE	Z-3		45.0	%	0.12	0.12	HACRES				

DISCIPLINE TITLE - COASTAL ZONE
 APPLICATION TITLE - COASTAL ENVIRONMENT MAPPING
 SUBAPPLICATION TITLE - ENVIRONMENTAL INFERENCE MAPPING
 TREE - 4.1.5

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
DRAINAGE PATTERNS			LOCAL, REGIONAL		SALINE, BRACKISH OR FRESH, L-S
LAND COVER TYPE			LOCAL, REGIONAL		L-S
LAND COVER TYPE			LOCAL	SPRING	
PLANT TYPE					
SALINITY			LOCAL, REGIONAL		L-S
SALINITY			LOCAL, REGIONAL		L-S
TIDAL EFFECTS			LOCAL, REGIONAL		L-S
VEGETATIVE TYPE			LOCAL, REGIONAL	WINTER EARLY SPRING	
WATER LOCATION			LOCAL	SPRING	
WETLAND EXTENT			LOCAL, REGIONAL		L-S
WETLAND EXTENT			LOCAL	SPRING	
WETLAND EXTENT			LOCAL	SPRING	
WETLAND TYPE			LOCAL	SPRING	

DISCIPLINE TITLE - COASTAL ZONE
APPLICATION TITLE - COASTAL ENVIRONMENT MAPPING
SUBAPPLICATION TITLE - CONTINENTAL SHELF MAPPING
TREE - 4 1 6

DISCIPLINE TITLE - COASTAL ZONE
APPLICATION TITLE - COASTAL ENVIRONMENT MAPPING
SUBAPPLICATION TITLE - CONTINENTAL SHELF MAPPING
TREE - 4.1 6

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
COLOR, TONAL PATTERNS	TWICE/YR: SHOALS			3 WK SHOALS	
OCEAN SURFACE ROUGHNESS				DEPTH/ShORE: 2 WK	
SEDIMENT				ALL YR	
SLOPE, RELIEF				STORM SURGE: 5-1 DA	
TERRAIN TYPE				DURING, 1 DA AFTER	
WATER DEPTH					

DISCIPLINE TITLE ~ COASTAL ZONE
 APPLICATION TITLE ~ COASTAL ENVIRONMENT MAPPING
 SUBAPPLICATION TITLE ~ WETLANDS MAPPING
 TREE ~ 4.1.7

PARAMETER	REFER.	DES. ACCUR.	BASED ACCUR.	ACCUR. UNITS	LOW HORIZ RESOL.	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL	HIGH VERT RESOL.	VERT RESOL UNITS	FRESHNESS
CURRENT LOCATION	L-27	. 01	10.	KM	. 01	10	KM				3 HR-DA
CURRENT VELOCITY	L-27				. 01	10.	KM				3 HR-DA
DRAINAGE PATTERNS	Z-10										
EROSION RATE	L-27										
LAND COVER TYPE	Z-3		75. 0	%	0 12	0 12	HACRES				
LAND COVER TYPE	Z-11		70. 0		25. 0	100 0					MON
LAND COVER TYPE	Z-10										
LEAF AREA INDEX	L-27										
PLANT DENSITY	L-27										
PLANT TYPE	L-27										
RUNOFF RATE	L-27										
RUNOFF VOLUME	L-27										
SALINITY	L-27										
SALINITY	Z-10										
SEDIMENT	L-27										
TIDAL EFFECTS	Z-10										
TIDAL RANGE	L-27										
VEGETATIVE COVER TYPE	Z-11		70 0	%	25. 0	100 0	M				
VEGETATIVE COVER TYPE	Z-12		85. 0		50. 0	100 0	M				
VEGETATIVE COVER TYPE	Z-12		75. 0	%	10 0	15 0	M				
VEGETATIVE TYPE	Z-10				25 0	100. 0	M				
WATER LOCATION	Z-3		75. 0	%	0 12	0 12	HACRES				
WATER LOCATION	Z-11		90. 0	%	25 0	100 0	M				
WATER LOCATION	Z-12		70. 0	%	50 0	100. 0	M				
WATER LOCATION	Z-12		75. 0	%	10 0	15. 0	M				
WETLAND EXTENT	L-27										
WETLAND EXTENT	Z-3		55. 0	%	0. 12	0. 1	HACRES				
WETLAND EXTENT	Z-10										
WETLAND EXTENT	Z-12		89. 0	%	50. 0	100 0	M				
WETLAND EXTENT	Z-12		61. 0	%	10. 0	15 0	M				
WETLAND TYPE	Z-3		45. 0	%	0. 12	0. 12	HACRES				

DISCIPLINE TITLE - COASTAL ZONE
 APPLICATION TITLE - COASTAL ENVIRONMENT MAPPING
 SUBAPPLICATION TITLE - WETLANDS MAPPING
 TREE - 4 1.7

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
CURRENT LOCATION	4-10/DA			ALL YEAR	
CURRENT VELOCITY	4-10/DA			ALL YEAR	
DRAINAGE PATTERNS			LOCAL, REGIONAL		L-S
EROSION RATE					
LAND COVER TYPE			LOCAL	SPRING	
LAND COVER TYPE			LOCAL	LATE SUMMER	L/S
LAND COVER TYPE			LOCAL, REGIONAL		L-S
LEAF AREA INDEX					
PLANT DENSITY					
PLANT TYPE					
RUNOFF RATE					
RUNOFF VOLUME					
SALINITY					
SALINITY			LOCAL REGIONAL		L-S
SEDIMENT					
TIDAL EFFECTS			LOCAL, REGIONAL		L-S
TIDAL RANGE					
VEGETATIVE COVER TYPE			LOCAL	LATE SUMMER	L/S
VEGETATIVE COVER TYPE			LOCAL	WINTER	6 CLASSES, L/S
VEGETATIVE COVER TYPE			LOCAL	WINTER	AIRBORNE MSS, 6 CLASSES
VEGETATIVE TYPE			LOCAL, REGIONAL	WINTER/EARLY SPRING	L-S
WATER LOCATION			LOCAL	SPRING	
WATER LOCATION			LOCAL	LATE SUMMER	L/S
WATER LOCATION			LOCAL	WINTER	RIVER/LAKE, L/S
WATER LOCATION			LOCAL	WINTER	AIRBORNE MSS
WETLAND EXTENT					
WETLAND EXTENT					
WETLAND EXTENT			LOCAL REGIONAL		L-S
WETLAND EXTENT			LOCAL	WINTER	L/S
WETLAND EXTENT			LOCAL	WINTER	AIRBORNE MSS
WETLAND TYPE			LOCAL	SPRING	

DISCIPLINE TITLE - COASTAL ZONE
 APPLICATION TITLE - COASTAL ENVIRONMENT MAPPING
 SUBAPPLICATION TITLE - LITTORAL ZONE MAPPING
 TREE - 4.1 8

PARAMETER	REFER	DES ACCUR.	BASED ACCUR.	ACCUR. UNITS	LOW HORIZ RESOL.	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL	HIGH VERT RESOL.	VERT RESOL UNITS	FRESHNESS
COLOR, TONAL PATTERNS	Z-19				30.0	100.0	M				
CURRENT LOCATION	Z-19				30.0	100.0	M				
DRAINAGE PATTERNS	Z-19				30.0	100.0	M				
SUSPENDED SEDIMENT LOAD	Z-19				30.0	100.0	M	0.5	1.0	1.0	
TOPOGRAPHIC FEATURES	Z-19				30.0	100.0	M				

DISCIPLINE TITLE - COASTAL ZONE
APPLICATION TITLE - COASTAL ENVIRONMENT MAPPING
SUBAPPLICATION TITLE - LITTORAL ZONE MAPPING
TREE - 4.1.0
PARAMETER

FREQUENCY
OF UPDATE

DURATION

AREAL
COVERAGE

OBSERVATION
TIME

COMMENTS

COLOR, TONAL PATTERNS
CURRENT LOCATION
DRAINAGE PATTERNS
SUSPENDED SEDIMENT LOAD
TOPOGRAPHIC FEATURES

DISCIPLINE TITLE - COASTAL ZONE
 APPLICATION TITLE - OPERATION/NAVIGATION ASSESSMENT
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 4.2 1

PARAMETER	REFER.	DES ACCUR	BASED ACCUR.	ACCUR UNITS	LOW HORIZ RESOL.	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL.	VERT RESOL UNITS	FRESHNESS
COLOR, TONAL PATTERNS	L-1				30	50	M				
COLOR, TONAL PATTERNS	Z-1				30	50	M				
LINEAMENTS	Z-16				10.	100.	M				MON
OCEAN WAVE DIR	L-1	5.	20	DEG	2	100.	M				
OCEAN WAVE DIR	L-54	5	20.	DEG	2	100.	M				
OCEAN WAVE HEIGHT	L-1				1	10.	KM				
OCEAN WAVE HEIGHT	L-54				1	10.	KM				
OCEAN WAVE LENGTH	L-1				2.	100.	M				
OCEAN WAVE LENGTH	L-54				2	100	M				
SEDIMENT	L-1				30	50	M				
SEDIMENT	Z-1										
TERRAIN TYPE	L-1				200.		M				
TERRAIN TYPE	Z-1				200		M				
TIDAL RANGE	L-1										
TIDAL RANGE	Z-1										
TOPOGRAPHIC FEATURES	L-16				10 0	100. 0					MON
TURBIDITY	Z-16				10 0	100 0	M				MON
VERT WIND SHEAR	L-1	. 1		D/CM2	. 01	10.	KM				3 HR-DA
VERT WIND SHEAR	L-54	. 1		D/CM2	. 01	10	KM				3 HR/DA
WATER DEPTH	L-1										
WATER DEPTH	Z-1										
WATER DEPTH	Z-16				10 0	100 0	M	1 0	2. 0	M	MON

DISCIPLINE TITLE - COASTAL ZONE
 APPLICATION TITLE - OPERATION/NAVIGATION ASSESSMENT
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 4.2.1

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
COLOR, TONAL PATTERNS					
COLOR, TONAL PATTERNS					WATER COLOR
LINEAMENTS					WATER COLOR
OCEAN WAVE DIR			REGIONAL	ALL SEASONS	
OCEAN WAVE DIR					
OCEAN WAVE HEIGHT					
OCEAN WAVE HEIGHT					
OCEAN WAVE LENGTH				ALL YEAR	
OCEAN WAVE LENGTH					
SEDIMENT					
SEDIMENT					
TERRAIN TYPE					
TERRAIN TYPE					
TIDAL RANGE					
TIDAL RANGE					
TOPOGRAPHIC FEATURES					
TURBIDITY			REGIONAL		BATHYMETRIC
VERT WIND SHEAR	4-10/DA		REGIONAL	ALL SEASON	
VERT WIND SHEAR	4-10/DA				
WATER DEPTH					
WATER DEPTH					
WATER DEPTH			REGIONAL	ALL SEASONS	MAX 4.5 FATHONS

DISCIPLINE TITLE - COASTAL ZONE
 APPLICATION TITLE - OPERATION/NAVIGATION ASSESSMENT
 SUBAPPLICATION TITLE - SHIP DESIGN CONSIDERATIONS
 TREE - 4 2 2

PARAMETER	REFER	DES. ACCUR	BASD ACCUR	ACCUR UNITS	LOW HORIZ RESOL.	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL	HIGH VERT RESOL	VERT RESOL UNITS	FRESHNESS
DRAINAGE PATTERNS	Z-17				100 0	100 0	M				
LAND COVER TYPE	Z-17				100 0	100 0					
OCEAN CURRENT DIRECTION	Z-17	98 0			0 1	1 0	KM				
OCEAN WAVE DIR	L-1	5	20.	% DEG	2	100.	M				
OCEAN WAVE HEIGHT	L-1				1	10	KM				
OCEAN WAVE LENGTH	L-1				2	100	M				
SEDIMENT	L-1										
SEDIMENT LOAD	Z-17	95 0		%	0. 1	1 0	KM				
TERRAIN TYPE	L-1										
TIDAL PROPERTIES	Z-17				100 0	100. 0	M				
TIDAL RANGE	L-1										
TURBIDITY	Z-17	98 0		%	0. 1	1. 0	KM				DA-MON
VERT WIND SHEAR	L-1	1		D/CM2	.01	10	KM				
WATER ALBEDO	Z-17	98. 0		%	0 1	1 0	KM				3
WATER DEPTH	L-1										
WATER TEMP	Z-17				0. 1	1 0	KM				

DISCIPLINE TITLE - COASTAL ZONE
 APPLICATION TITLE - OPERATION/NAVIGATION ASSESSMENT
 SUBAPPLICATION TITLE - SHIP DESIGN CONSIDERATIONS
 TREE - 4.2.2

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
DRAINAGE PATTERNS	2-3 WK		REGIONAL	ALL SEASONS	TRACE SED BACK TO ORIGIN
LAND COVER TYPE	2-3 WK		REGIONAL	ALL SEASONS	
OCEAN CURRENT DIRECTION	2-3 WK		REGIONAL	ALL SEASONS	
OCEAN WAVE DIR				ALL YEAR	
OCEAN WAVE HEIGHT					
OCEAN WAVE LENGTH					
SEDIMENT					
SEDIMENT LOAD	2-3 WK		REGIONAL	ALL SEASONS	
TERRAIN TYPE					
TIDAL PROPERTIES	2-3 WK		ALL SEASONS		
TIDAL RANGE	DA-MON				
TURBIDITY	2-3 WK		REGIONAL	ALL SEASONS	
VERT WIND SHEAR					
WATER ALBEDO	2-3 WK		REGIONAL	ALL SEASONS	
WATER DEPTH					
WATER TEMP	2-3 WKS		REGIONAL	ALL SEASONS	

DISCIPLINE TITLE - COASTAL ZONE
 APPLICATION TITLE - OPERATION/NAVIGATION ASSESSMENT
 SUBAPPLICATION TITLE - SEDIMENTATION OF COASTAL WATERWAYS
 TREE - 4.2.3

PARAMETER	REFER.	DES ACCUR.	BASED ACCUR	ACCUR UNITS	LOW HORIZ RESOL	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL.	VERT RESOL UNITS	FRESHNESS
COLOR, TONAL PATTERNS	L-3				30	50	M				60 DA
COLOR, TONAL PATTERNS	Z-19				30.0	100.0	M				
COLOR, TONAL PATTERNS	Z-13				0.1	1.0	KM				
COLOR, TONAL PATTERNS	Z-13				0.1	1.0	KM				
CURRENT LOCATION	Z-19				30.0	100.0	M				
DRAINAGE PATTERNS	Z-19				30.0	100.0	M				
LINEAMENTS	Z-16			M	10.0	100.0					MON
OCEAN CURRENT BOUNDARY	Z-13				0.1	1.0	KM				
OCEAN SURFACE ROUGHNESS	L-3										
OCEAN SURFACE TEMP	Z-13										
PARTICULATES	Z-13				0.1	1.0	KM				
SEDIMENT	L-3				200		M				24-48 HR
SUSPENDED SEDIMENT LOAD	Z-19				30.0	100.0	M	0.5	1.0	M	
TERRAIN TYPE	L-3										
TOPOGRAPHIC FEATURES	Z-16				10.0	100.0	M				
TOPOGRAPHIC FEATURES	Z-19				30.0	100.0	M				
TURBIDITY	Z-16				10.0	100.0	M				MON
WATER ALBEDO	Z-13				0.1	1.0	KM				
WATER DEPTH	L-3										
WATER DEPTH	Z-16				10.0	100.0	M	1.0	2.0		MON

DISCIPLINE TITLE - COASTAL ZONE
 APPLICATION TITLE - OPERATION/NAVIGATION ASSESSMENT
 SUBAPPLICATION TITLE - SEDIMENTATION OF COASTAL WATERWAYS
 TREE - 4 2 3

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
COLOR, TONAL PATTERNS	2/YR, SHOALS			SHOALS: 3 WEEKS	
COLOR, TONAL PATTERNS			REGIONAL		
COLOR, TONAL PATTERNS	MON		REGIONAL		
CURRENT LOCATION					
DRAINAGE PATTERNS					
LINEAMENTS			REGIONAL	ALL SEASON	
OCEAN CURRENT BOUNDARY	MON		REGIONAL		LOOP CURRENT OF GULF STREAM
OCEAN SURFACE ROUGHNESS					
OCEAN SURFACE TEMP	MON		REGIONAL		
PARTICULATES	MON		REGIONAL		
SEDIMENT	DA-WK			DEPTH/SHORELINE. 2 WEEKS	
SUSPENDED SEDIMENT LOAD				STORM SURGES . 5-1 DAY DURING 1 DAY	
TERRAIN TYPE				ALL SEASONS	BATHYMETRIC LITTORAL, BATHYMETRIC
TOPOGRAPHIC FEATURES	MON		REGIONAL		
TOPOGRAPHIC FEATURES					
TURBIDITY			REGIONAL	ALL SEASONS	
WATER ALBEDO	MON		REGIONAL		
WATER DEPTH					
WATER DEPTH			REGIONAL	ALL SEASONS	MAX 4.5 FATHOMS

DISCIPLINE TITLE - COASTAL ZONE
APPLICATION TITLE - OPERATION/NAVIGATION ASSESSMENT
SUBAPPLICATION TITLE - BOTTOM TOPOGRAPHIC INVENTORY
TREE - 4.2.4

[illegible]

DISCIPLINE TITLE - COASTAL ZONE
 APPLICATION TITLE - OPERATION/NAVIGATION ASSESSMENT
 SUBAPPLICATION TITLE - BOTTOM TOPOGRAPHIC INVENTORY
 TREE - 4.2.4

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
COLOR, TONAL PATTERNS	2/YR, SHOALS			3 WK, SHOALS	WATER COLOR
COLOR, TONAL PATTERNS	2/YR, SHOALS			3 WK, SHOALS	
OCEAN SURFACE ROUGHNESS					
OCEAN WAVE HEIGHT					
OCEAN WAVE LENGTH					
SEDIMENT	DA-WK			DEPTH/ShORELINE: 2 WEEKS	
SURFACE AIR TEMP				STORM SURGES: .5-1	
TERRAIN TYPE				DAY DURING, 1 DAY	
VERT WIND SHEAR	4-10 TIMES DA				
WATER DEPTH					

DISCIPLINE TITLE - COASTAL ZONE
APPLICATION TITLE - OPERATION/NAVIGATION ASSESSMENT
SUBAPPLICATION TITLE - SEA ICE MONITORING
TREE - 4.2 5

[illegible]

DISCIPLINE TITLE - COASTAL ZONE
 APPLICATION TITLE - OPERATION/NAVIGATION ASSESSMENT
 SUBAPPLICATION TITLE - SEA ICE MONITORING
 TREE - 4 2 5

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
COLOR, TONAL PATTERNS	4 DA		POLAR REGIONS/CLIMA*	WINTER/SPRING	
CURRENT LOCATION					
CURRENT VELOCITY					
ICE FLOE DIR	1 DA				
ICE FLOE DIR					
ICE FLOE SIZE	5-15 DA				
ICE FLOE SIZE	4 DA		POLAR REGIONS/CLIMA*	WINTER/SPRING	
ICE/SNOW ALBEDO	DA-WK				
OCEAN SURFACE VELOCITY PROF					
OCEAN WAVE DIR					
OCEAN WAVE HEIGHT					
OCEAN WAVE LENGTH				ALL YEAR IN VERY HIGH LATITUDES	
SURFACE AIR TEMP	4-10/DA				
VERT WIND SHEAR					
WATER DEPTH					
WATER TEMP PROF					

DISCIPLINE TITLE - COASTAL ZONE
APPLICATION TITLE - OPERATION/NAVIGATION ASSESSMENT
SUBAPPLICATION TITLE - PORT/HARBOR PLANNING
TREE - 4 2 6

[illegible]

DISCIPLINE TITLE - COASTAL ZONE
 APPLICATION TITLE - OPERATION/NAVIGATION ASSESSMENT
 SUBAPPLICATION TITLE - PORT/HARBOR PLANNING
 TREE - 4 2.6

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
CURRENT LOCATION	4-10/DA			ALL YEAR	
CURRENT VELOCITY	4-10/DA			ALL YEAR	
DRY BIOMASS					
EROSION RATE					
FLOOD EXTENT					
LINEAMENTS			REGIONAL	ALL SEASONS	
OCEAN WAVE DIR					
OCEAN WAVE FORCE					
OCEAN WAVE HEIGHT					
OCEAN WAVE LENGTH AMP					
OCEAN WAVE LENGTH DIR					
SEDIMENT					
SLOPE RELIEF					
TERRAIN TYPE					
TOPOGRAPHIC FEATURES			REGIONAL	ALL SEASONS	
TURBIDITY			REGIONAL	ALL SEASONS	
WATER DEPTH			REGIONAL	ALL SEASONS	
WET BIOMASS					
					BATHYMETRIC
					MAX 4.5 FATHOMS

DISCIPLINE TITLE - COASTAL ZONE
APPLICATION TITLE - OPERATION/NAVIGATION ASSESSMENT
SUBAPPLICATION TITLE - MARINE TRAFFIC MONITORING
TREE - 4.2.7

[illegible]

DISCIPLINE TITLE - COASTAL ZONE
APPLICATION TITLE - OPERATION/NAVIGATION ASSESSMENT
SUBAPPLICATION TITLE - MARINE TRAFFIC MONITORING
TREE - 4.2 7

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
COLOR, TONAL PATTERNS					WATER COLOR
OCEAN WAVE DIR					
OCEAN WAVE HEIGHT					
OCEAN WAVE LENGTH AMP				ALL YEAR	
OCEAN WAVE LENGTH DIR				ALL YEAR	
SEDIMENT					
TERRAIN TYPE					
TIDAL RANGE					
VERT WIND SHEAR	4-10/DA				
WATER DEPTH PROF					

DISCIPLINE TITLE - COASTAL ZONE
 APPLICATION TITLE - COASTAL OCEAN CONDITION MONITORING
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 4.3.1

PARAMETER	REFER	DES ACCUR	BASED ACCUR.	ACCUR UNITS	LOW HORIZ RESOL.	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL	HIGH VERT RESOL	VERT RESOL UNITS	FRESHNESS
CHLOROPHYLL	Z-2		0 4	MG/M3							
DRAINAGE PATTERNS	Z-2	99 0	90 0	%							
LAND COVER TYPE	Z-2										
SALINITY	Z-2		2 0	PPT							
SEA SURFACE TEMP	Z-2	0.1	0.5	DEG C							
TURBIDITY	Z-2		1.7	FT				0.5	0.5	M	

DISCIPLINE TITLE - COASTAL ZONE
APPLICATION TITLE - COASTAL OCEAN CONDITION MONITORING
SUBAPPLICATION TITLE - NO TITLE
TREE - 4.3.1
PARAMETER

FREQUENCY
OF UPDATE

DURATION

AREAL
COVERAGE

OBSERVATION
TIME

COMMENTS

CHLOROPHYLL
DRAINAGE PATTERNS
LAND COVER TYPE
SALINITY
SEA SURFACE TEMP
TURBIDITY

FROM COLOR PATTERNS

DISCIPLINE TITLE - COASTAL ZONE
APPLICATION TITLE - COASTAL OCEAN CONDITION MONITORING
SUBAPPLICATION TITLE - EROSION MONITORING
TREE - 4.3 2

[illegible]

DISCIPLINE TITLE - COASTAL ZONE
 APPLICATION TITLE - COASTAL OCEAN CONDITION MONITORING
 SUBAPPLICATION TITLE - EROSION MONITORING
 TREE - 4 3.2

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
CURRENT LOCATION	4-10/DA			ALL YEAR	
CURRENT VELOCITY	4-10/DA			ALL YEAR	
DRY BIOMASS					
EROSION RATE					
FLOOD EXTENT					
OCEAN WAVE DIR					
OCEAN WAVE FORCE					
OCEAN WAVE HEIGHT					
OCEAN WAVE LENGTH AMP					
OCEAN WAVE LENGTH DIR					
SEDIMENT					
SLOPE, RELEIF					
TERRAIN TYPE					
VEGETATIVE PATTERNS					
WET BIOMASS					

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DISCIPLINE TITLE - COASTAL ZONE
APPLICATION TITLE - COASTAL OCEAN CONDITION MONITORING
SUBAPPLICATION TITLE - TSUNAMI TRACKING
TREE - 4 3 3
PARAMETER REFER DES BASED A

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[illegible]

DISCIPLINE TITLE - COASTAL ZONE
 APPLICATION TITLE - COASTAL OCEAN CONDITION MONITORING
 SUBAPPLICATION TITLE - TSUNAMI TRACKING
 TREE - 4 3 3

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
OCEAN WAVE DIR					
OCEAN WAVE HEIGHT					
OCEAN WAVE LENGTH AMP					
OCEAN WAVE LENGTH DIR					
OCEAN WAVE LENGTH DIR					
SEISMICITY					
SLOPE, RELIEF					
VERT WIND SHEAR	4-10/DA			ALL YEAR	
WATER DEPTH					

DISCIPLINE TITLE - COASTAL ZONE
APPLICATION TITLE - COASTAL OCEAN CONDITION MONITORING
SUBAPPLICATION TITLE - STORM TIDE PREDICTION
TREE - 4 3 4

[illegible]

DISCIPLINE TITLE - COASTAL ZONE
APPLICATION TITLE - COASTAL OCEAN CONDITION MONITORING
SUBAPPLICATION TITLE - STORM TIDE PREDICTION
TREE - 4.3.4

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
OCEAN WAVE DIR					
OCEAN WAVE HEIGHT					
OCEAN WAVE LENGTH AMP				ALL YEAR	
TIDAL PERIOD					
TIDAL RANGE					
VERT WIND SHEAR	4-10/DA				
WATER DEPTH					


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DISCIPLINE TITLE - COASTAL ZONE
APPLICATION TITLE - COASTAL OCEAN CONDITION MONITORING
SUBAPPLICATION TITLE - WIND-WAVE HAZARD TRACKING
TREE - 4.3.5
PARAMETER REF. DES BASED
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[illegible]

DISCIPLINE TITLE - COASTAL ZONE
APPLICATION TITLE - COASTAL OCEAN CONDITION MONITORING
SUBAPPLICATION TITLE - WIND-WAVE HAZARD TRACKING
TREE - 4.3.5

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
OCEAN WAVE DIR					
OCEAN WAVE HEIGHT					
OCEAN WAVE LENGTH AMP					
OCEAN WAVE LENGTH DIR					
VERT WIND SHEAR	4-10/DA			ALL YEAR	
WATER DEPTH					

DISCIPLINE TITLE - COASTAL ZONE
 APPLICATION TITLE - COASTAL OCEAN CONDITION MONITORING
 SUBAPPLICATION TITLE - THERMAL POLLUTANTS TRACKING
 TREE - 4 3 7

PARAMETER	REFER	DES ACCUR.	BASD ACCUR	ACCUR UNITS	LOW HORIZ RESOL	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL	HIGH VERT RESOL	VERT RESOL UNITS	FRESHNESS
OCEAN SURFACE TEMP	L-27	1	5	C	1	10	KM				3-24 HR
OCEAN TEMP PROF	L-27	.1	1	C							
SURFACE TEMP PROF	L-27	1	.5	C	1	10	KM				3-24 HR

DISCIPLINE TITLE - COASTAL ZONE
APPLICATION TITLE - COASTAL OCEAN CONDITION MONITORING
SUBAPPLICATION TITLE - THERMAL POLLUTANTS TRACKING
TREE - 4 3.7

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
OCEAN SURFACE TEMP	2-10/DA			ALL YR	
OCEAN TEMP PROF					
SURFACE TEMP PROF	2-10/DA			ALL YR	

DISCIPLINE TITLE - COASTAL ZONE
 APPLICATION TITLE - COASTAL OCEAN CONDITION MONITORING
 SUBAPPLICATION TITLE - COASTAL UPWELLING STUDIES
 TREE - 4.3.8

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
COLOR, TONAL PATTERNS					
CURRENT LOCATION					
CURRENT VELOCITY					
OCEAN TEMP PROF					
OCEAN WAVE DIR					
OCEAN WAVE HEIGHT					
OCEAN WAVE LENGTH AMP					
OCEAN WAVE LENGTH DIR					
TURBIDITY					
VERT WIND SHEAR					
WATER DEPTH					

DA-WK

4-10/DA

ALL YEAR

WATER COLOR

DISCIPLINE TITLE - COASTAL ZONE
 APPLICATION TITLE - COASTAL OCEAN CONDITION MONITORING
 SUBAPPLICATION TITLE - CURRENT MAPPING
 TREE - 4 3 9

PARAMETER	REFER.	DES ACCUR	BASED ACCUR.	ACCUR UNITS	LOW HORIZ RESOL	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL.	VERT RESOL UNITS	FRESHNESS
COLOR, TONAL PATTERNS	Z-13				0 1	1.0	KM				
COLOR, TONAL PATTERNS	Z-13				0.1	1.0	KM				
CURRENT LOCATION	L-27	01	10	KM	.01	10	KM				
CURRENT VELOCITY	L-27				.01	10	KM				3-24 HR
OCEAN CURRENT BOUNDARY	Z-13				0.1	1.0	KM				
OCEAN SUBSURFACE TEMP	Z-13	1.0									
OCEAN WAVE FORCE	Z-1										
OCEAN WAVE HEIGHT	Z-1										
PARTICULATES	Z-13				0 1	1.0	KM				
SURFACE WIND SPEED	Z-1										
WATER ALBEDO	Z-13				0 1	1.0	KM				

DISCIPLINE TITLE - COASTAL ZONE
 APPLICATION TITLE - COASTAL OCEAN CONDITION MONITORING
 SUBAPPLICATION TITLE - CURRENT MAPPING
 TREE - 4.3.9

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
COLOR, TONAL PATTERNS	MON		REGIONAL		
COLOR, TONAL PATTERNS	MON		REGIONAL		
CURRENT LOCATION					
CURRENT VELOCITY	4-10/DA				
OCEAN CURRENT BOUNDARY	MON		REGIONAL	ALL YEAR	LOOP CURRENT OF GULF STREAM L-27
OCEAN SUBSURFACE TEMP	MON		REGIONAL		
OCEAN WAVE FORCE					
OCEAN WAVE HEIGHT					
PARTICULATES	MON		REGIONAL		
SURFACE WIND SPEED					
WATER ALBEDO	MON		REGIONAL		

DISCIPLINE TITLE - COASTAL ZONE
 APPLICATION TITLE - COASTAL OCEAN CONDITION MONITORING
 SUBAPPLICATION TITLE - WAVE STUDIES
 TREE - 4 3 10

PARAMETER	REFER.	DES. ACCUR	BASED ACCUR	ACCUR UNITS	LOW HORIZ RESOL.	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL.	VERT RESOL UNITS	FRESHNESS
COLOR, TONAL PATTERNS	Z-14				100 0	100 0	M				
TIDAL PROPERTIES	Z-14				0 1	1 0	KM				
TOPOGRAPHIC FEATURES	Z-14	2.0		CM	100 0	500 0	M				6-12 HR
WATER ALBEDO	Z-14				0 1	1 0	KM				

DISCIPLINE TITLE - COASTAL ZONE
APPLICATION TITLE - COASTAL OCEAN CONDITION MONITORING
SUBAPPLICATION TITLE - WAVE STUDIES
TREE - 4.3 10

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
COLOR, TONAL PATTERNS			LOCAL/REGIONAL	LATE SUMMER	BATHYMETRIC, L-27
TIDAL PROPERTIES			LOCAL/REGIONAL	LATE SUMMER	
TOPOGRAPHIC FEATURES			LOCAL/REGIONAL	LATE SUMMER	
WATER ALBEDO			LOCAL/REGIONAL	LATE SUMMER	

DISCIPLINE TITLE - COASTAL ZONE
APPLICATION TITLE - COASTAL, ESTUARY AND OCEAN ENGINEERING
SUBAPPLICATION TITLE - COASTAL DEVELOPMENT ASSESSMENT
TREE - 4. 4. 2
PARAMETER REFER. DES. BASED ACCU

[illegible]

DISCIPLINE TITLE - COASTAL ZONE
 APPLICATION TITLE - COASTAL, ESTUARY AND OCEAN ENGINEERING
 SUBAPPLICATION TITLE - COASTAL DEVELOPMENT ASSESSMENT
 TREE - 4.4.2

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
BIOMASS					
COLOR, TONAL PATTERNS					WATER COLOR
CURRENT LOCATION	DA-WK				
CURRENT LOCATION	4-10/DA			ALL YEAR	
CURRENT LOCATION	4-10/DA			ALL YEAR	
CURRENT VELOCITY					
CURRENT VELOCITY	4-10/DA			ALL YEAR	
CURRENT VELOCITY	4-10/DA			ALL YEAR	
DRAINAGE PATTERNS			LOCAL, REGIONAL		L-S
DRY BIOMASS					
EROSION RATE					
EROSION RATE					
FLOOD EXTENT					
LAND COVER TYPE			LOCAL	LATE SUMMER	L-S
LAND COVER TYPE			LOCAL, REGIONAL		L-S
OCEAN WAVE DIR					
OCEAN WAVE DIR					
OCEAN WAVE DIR					
OCEAN WAVE FORCE					
OCEAN WAVE FORCE					
OCEAN WAVE HEIGHT					
OCEAN WAVE HEIGHT					
OCEAN WAVE HEIGHT					
OCEAN WAVE LENGTH					
OCEAN WAVE LENGTH					
OCEAN WAVE LENGTH AMP					
OCEAN WAVE LENGTH DIR					
SALINITY			LOCAL, REGIONAL		L-S
SEDIMENT					
SEDIMENT					
SEDIMENT					
SLOPE, RELIEF					
SLOPE, RELIEF					
TERRAIN TYPE					
TERRAIN TYPE					
TERRAIN TYPE					
TIDAL EFFECTS			LOCAL, REGIONAL		L-S
TIDAL RANGE					
VEGETATIVE COVER TYPE			LOCAL	LATE SUMMER	L/S
VEGETATIVE TYPE			LOCAL, REGIONAL	WINTER, EARLY SPRING	L-S
VERT WIND SHEAR	4-10/DA FOR WI*				
WATER DEPTH					
WET BIOMASS					
WETLAND EXTENT			LOCAL, REGIONAL		L-S

DISCIPLINE TITLE - COASTAL ZONE
APPLICATION TITLE - COASTAL, ESTUARY AND OCEAN ENGINEERING
SUBAPPLICATION TITLE - WASTE DISPOSAL MANAGEMENT
TREE - 4 4.3

[illegible]

DISCIPLINE TITLE - COASTAL ZONE
 APPLICATION TITLE - COASTAL, ESTUARY AND OCEAN ENGINEERING
 SUBAPPLICATION TITLE - WASTE DISPOSAL MANAGEMENT
 TREE - 4 4.3

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
COLOR, TONAL PATTERNS			LOCAL	ALL SEASONS, SUMMER, AUTUMN	L/S+AIRCRAFT
COLOR, TONAL PATTERNS			REGIONAL	ALL SEASONS	L/S
COLOR, TONAL PATTERNS			LOCAL	ALL SEASONS	
COLOR, TONAL PATTERNS			LOCAL	ALL SEASONS	
CURRENT LOCATION	4-10/DA			ALL YR	
CURRENT LOCATION	4-10/DA			ALL YEAR	
CURRENT VELOCITY	4-10/DA			ALL YR	
CURRENT VELOCITY	4-10/DA			ALL YR	
DRY BIOMASS					
DRY BIOMASS					
EROSION RATE					
EROSION RATE					
FLOOD EXTENT					
FLOOD EXTENT					
OCEAN WAVE DIR					
OCEAN WAVE DIR					
OCEAN WAVE FORCE					
OCEAN WAVE FORCE					
OCEAN WAVE HEIGHT					
OCEAN WAVE HEIGHT					
OCEAN WAVE LENGTH					
OCEAN WAVE LENGTH AMP					
OCEAN WAVE LENGTH DIR					
SEDIMENT					
SEDIMENT					
SLOPE, RELIEF					
SLOPE, RELIEF					
SUSPENDED SEDIMENT CONCEN					
TERRAIN TYPE					
TERRAIN TYPE					
TIDAL PERIOD					
TIDAL PROPERTIES					
TIDAL RANGE					
TURBIDITY					
WATER ALBEDO			LOCAL	ALL SEASONS, SUMMER, AUTUMN	L/S+AIRCRAFT
WATER ALBEDO					
WATER MASS BOUNDARIES					
WET BIOMASS					
WET BIOMASS					

DISCIPLINE TITLE - COASTAL ZONE
 APPLICATION TITLE - COASTAL RESOURCES STUDIES
 SUBAPPLICATION TITLE - RECREATION/FOREST PRESERVATION MONITORING
 TREE - 4.5 3

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
CURRENT LOCATION	4-10/DA			ALL YR	
CURRENT LOCATION	4-10/DA			ALL YR	
CURRENT LOCATION	4-10/DA			ALL YR	
CURRENT LOCATION					
CURRENT VELOCITY	4-10/DA			ALL UR	
CURRENT VELOCITY	4-10/DA			ALL YR	
CURRENT VELOCITY	4-10/DA			ALL YR	
CURRENT VELOCITY	4-10/DA			ALL YR	
DRY BIOMASS					
DRY BIOMASS					
DRY BIOMASS					
DRY BIOMASS					
EROSION RATE					
EROSION RATE					
EROSION RATE					
EROSION RATE					
FLOOD EXTENT					
FLOOD EXTENT					
FLOOD EXTENT					
LEAF AREA INDEX					
OCEAN WAVE DIR					
OCEAN WAVE DIR					
OCEAN WAVE DIR					
OCEAN WAVE FORCE					
OCEAN WAVE FORCE					
OCEAN WAVE HEIGHT					
OCEAN WAVE HEIGHT					
OCEAN WAVE HEIGHT					
OCEAN WAVE LENGTH					
OCEAN WAVE LENGTH AMP					
OCEAN WAVE LENGTH DIR					
PLANT DENSITY					
PLANT TYPE					
RUNOFF RATE					
RUNOFF VOLUME					
SALINITY					
SEDIMENT					
SEDIMENT					
SEDIMENT					
SEDIMENT					
SLOPE, RELIEF					
SLOPE, RELIEF					
SLOPE, RELIEF					
TERRAIN TYPE					
TERRAIN TYPE					
TERRAIN TYPE					
TERRAIN TYPE					
TIDAL PERIOD					
TIDAL RANGE					
TIDAL RANGE					
WET BIOMASS					
WET BIOMASS					
WET BIOMASS					
WET BIOMASS					
WETLAND EXTENT					

[illegible]

DISCIPLINE TITLE - COASTAL ZONE
 APPLICATION TITLE - COASTAL OCEAN CONDITION MONITORING
 SUBAPPLICATION TITLE - POLLUTANT IMPACT ASSESSMENT
 TREE - 4.6.3

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
CHLOROPHYLL					
CHLOROPHYLL					
COLOR, TONAL PATTERNS			REGIONAL	ALL SEASONS	FROM COLOR PATTERNS
COLOR, TONAL PATTERNS			LOCAL	ALL SEASONS	L/S
COLOR, TONAL PATTERNS			LOCAL	ALL SEASONS	
COLOR, TONAL PATTERNS					
COLOR, TONAL PATTERNS			LOCAL	ALL SEASONS	L/S+AIRCRAFT
COLOR, TONAL PATTERNS				ALL YEAR	
CURRENT LOCATION	DA				
CURRENT LOCATION					
CURRENT VELOCITY					
CURRENT VELOCITY					
DRAINAGE PATTERNS			LOCAL, REGIONAL		L-S
DRAINAGE PATTERNS					
LAND COVER TYPE			LOCAL, REGIONAL		L-S
LAND COVER TYPE					
NUTRIENTS CONCENT					
OCEAN SURFACE TEMP					
OCEAN TEMP PROF					
OCEAN WAVE DIR					
OCEAN WAVE HEIGHT					
OCEAN WAVE LENGTH AMP				ALL YR	
OCEAN WAVE LENGTH DIR				ALL YR	
POLLUTANT TYPE					
SALINITY					
SALINITY			LOCAL, REGIONAL		L-S
SALINITY					
SEA SURFACE TEMP					
SUSPENDED SEDIMENT CONCEN					
TIDAL EFFECTS			LOCAL, REGIONAL		L-S
TIDAL PROPERTIES					
TURBIDITY					
TURBIDITY					
VEGETATIVE TYPE			LOCAL, REGIONAL	WINTER, EARLY SPRING	L-S
VERT WIND SHEAR	4-10/DA				
WATER ALBEDO			LOCAL	ALL SEASONS	L/S AIRCRAFT
WATER ALBEDO					
WATER DEPTH					
WATER MASS BOUNDARIES					
WETLAND EXTENT			LOCAL, REGIONAL		L-S

Cryrosphere Applications
Data Sheets

DISCIPLINE TITLE - CRYOSPHERE
 APPLICATION TITLE - ICE IMPACT ON POLAR PETROLEUM ACTIVITIES
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 5 1 1 1
 PARAMETER

PARAMETER	REFER.	DES ACCUR.	BASED ACCUR	ACCUR UNITS	LOW HORIZ RESOL.	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL.	VERT RESOL UNITS	FRESHNESS
ICE BOUNDARY	L-34	0.5	5	KM	0.5	20	KM				
ICE CONCEN	L-34	2	20.	%	1.	25	KM				
ICE FLOE LOCATION	L-34	20	100.	M	20.	100.	M				
ICE LEAD FRACTIONAL AREA	L-34	10.	50	%	50.	100.	M				
ICE LEAD ORIENTATION	L-34	10.	30.	DEG							
ICE MOVEMENT	L-34	0.05	1	KM/DA	1	100	KM				
ICE THICKNESS	L-34	0.2	1	M	0.05	100.	KM				
ICE TYPE	L-34	5.0	10.0	%	1.0	25	KM				

DISCIPLINE TITLE - CRYOSPHERE
 APPLICATION TITLE - ICE IMPACT ON POLAR PETROLEUM ACTIVITIES
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 5 1 1 1

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
ICE BOUNDARY	1-3 DA		POLAR REGION	ALL SEASONS	
ICE CONCEN	1-3 DA		POLAR REGION	ALL SEASONS	
ICE FLOE LOCATION	6 HR-2 DA		POLAR REGION	ALL SEASONS	
ICE LEAD FRACTIONAL AREA	1-3 DA		POLAR REGION	ALL SEASONS	
ICE LEAD ORIENTATION	1-3 DA		POLAR REGION	ALL SEASONS	
ICE MOVEMENT	6 HR-7 DA		POLAR REGION	ALL SEASONS	
ICE THICKNESS	1 DA-1 MO		POLAR REGION	ALL SEASONS	
ICE TYPE	7 DA-1 MON		POLAR REGION	ALL SEASONS	

DISCIPLINE TITLE - CRYOSPHERE
 APPLICATION TITLE - ICE IMPACT ON NAVIGATION
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 5.1.1.2

PARAMETER	REFER.	DES ACCUR.	BASD ACCUR.	ACCUR UNITS	LOW HORIZ RESOL.	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL.	VERT RESOL UNITS	FRESHNESS
ICE CONCEN	L-34	2.	10.	%	1.	25	KM				
ICE LEAD FRACTIONAL AREA	L-34	10.	50	%	50	100	M				
ICE LEAD ORIENTATION	L-34	10	30.	DEG							
ICE MOVEMENT	L-34	0 05	1.	KM/A	1	100.	KM				
ICE THICKNESS	L-34	0.2	1.	M	0 05	100.	KM				
ICE TYPE	L-34	5.	10.	%	1.	25.	KM				
POLAR POSITION	L-34	20.	100.	M	20.	100.	M				
SHIP DENSITY	L-0										
SHIP LOCATION	L-0	1	100.	M	1.	100.	M				

DISCIPLINE TITLE - CRYOSPHERE
 APPLICATION TITLE - ICE IMPACT ON NAVIGATION
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 5 1 1.2

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
ICE CONCEN	1-3 DA		OPEN WATER	ALL SEASONS	
ICE LEAD FRACTIONAL AREA	3 DA		OPEN WATER	ALL SEASONS	
ICE LEAD ORIENTATION	1-3 DA		OPEN WATER	ALL SEASONS	
ICE MOVEMENT	6 HR-7 DA		OPEN WATER	ALL SEASONS	
ICE THICKNESS	DA-MON		OPEN WATER	ALL SEASONS	
ICE TYPE	7 DA-1 MO		OPEN WATER	ALL SEASONS	
POLAR POSITION	6 HR-2 DA		OPEN WATER	ALL SEASONS	
SHIP DENSITY	4/DA		OPEN WATER	ALL SEASONS	
SHIP LOCATION	4/DA		OPEN WATER	ALL SEASONS	L160

DISCIPLINE TITLE - CRYOSPHERE
 APPLICATION TITLE - SEA ICE HAZARD MONITORING & PREDICTION
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 5 1 1.3

PARAMETER	REFER.	DES ACCUR	BASED ACCUR.	ACCUR UNITS	LOW HORIZ RESOL	HIGH HORIZ RESOL	HORIZ RES UNITS	LOW VERT RESOL	HIGH VERT RESOL	VERT RESOL UNITS	FRESHNESS
ICE BOUNDARY	L-34	0 5	20	KM	0 5	20	KM				
ICE CONCEN	L-34	2	20	%	1	25	KM				
ICE DRIFT RATE	L-34										
ICE FLOE LOCATION	L-34	20	100.	M	20.	100	M				
ICE LEAD FRACTIONAL AREA	L-34	10	50	%	50	100.	M				
ICE LEAD ORIENTATION	L-34	10	30	DEG							
ICE MOVEMENT	L-34	0.05	1	KM/DA	1	100	KM				
ICE SURFACE ELEVATION	L-34	1	10.	M	5	50	KM				
ICE SURFACE ELEVATION	L-34	10	50	CM	5	5	KM				
ICE THICKNESS	L-34	0 2	1	M	0.05	100	KM				
ICEBERG LOCATION	L-34	5	100	M	5	100	M				
ICEBERG VOLUME DISCHARGE	L-34	5.	20	%							
OIL PLATFORM LOCATION	L-0										
SHIP DENSITY	L-0										
SHIP LOCATION	L-0	1	100	M	1	100	M				
SURFAC WIND SPEED	L-34	10.	20	DEG	20	50	KM				
SURFACE PRESSURE	L-34	0 5	1 0	MB	25	50	KM				
VISIBILITY	L-0	10	4	LEVELS	1.	300.	KM				

DISCIPLINE TITLE - CRYOSPHERE
 APPLICATION TITLE - SEA ICE HAZARD MONITORING & PREDICTION
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 5.1.1.3

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
ICE BOUNDARY	1-3 DA		OPEN SEA	ALL SEASONS	
ICE CONCEN	1-3 DA		OPEN SEA	ALL SEASONS	
ICE DRIFT RATE	DA		OPEN SEA	ALL SEASONS	
ICE FLOE LOCATION	6 HR-2 DA		OPEN SEA	ALL SEASONS	
ICE LEAD FRACTIONAL AREA	1-3 DA		OPEN SEA	ALL SEASONS	
ICE LEAD ORIENTATION	1-3 DA		OPEN SEA	ALL SEASONS	
ICE MOVEMENT	6 HR-7 DA		OPEN SEA	ALL SEASONS	
ICE SURFACE ELEVATION			OPEN SEA	ALL SEASONS	
ICE SURFACE ELEVATION	90 DA-10 YR		OPEN SEA	ALL SEASONS	
ICE THICKNESS	1 DA-1 MO		OPEN SEA	ALL SEASONS	
ICEBERG LOCATION	6 HR-2 DA		OPEN SEA	ALL SEASONS	
ICEBERG VOLUME DISCHARGE	90 DA-10 YR		OPEN SEA	ALL SEASONS	
OIL PLATFORM LOCATION	MON		OPEN SEA	ALL SEASONS	
SHIP DENSITY	4/DA		OPEN SEA	ALL SEASONS	
SHIP LOCATION	4/DA		OPEN SEA	ALL SEASONS	L-160
SURFAC WIND SPEED	1-3 DA		OPEN SEA	ALL SEASONS	
SURFACE PRESSURE	1-3 DA		OPEN SEA	ALL SEASONS	
VISIBILITY	4/DA		OPEN SEA	ALL SEASONS	L-160

DISCIPLINE TITLE - CRYOSPHERE
 APPLICATION TITLE - POLAR ECOLOGY
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 5 1.2 1

PARAMETER	REFER	DES ACCUR.	BASD ACCUR	ACCUR UNITS	LOW HORIZ RESOL	HIGH HORIZ RESOL	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL.	VERT RESOL UNITS	FRESHNESS
CURRENT LOCATION	L-1		5	M/S	0 1	1	KM				DA
ICE EXTENT	L-1	0 01	1	KM	0. 01	1	KM				DA
POLLUTANT CONCEN	L-1				0. 01	1.	KM				DA
POLLUTANT TYPE	L-1										DA
SPECIES IDENTIFICATION	L-1			VAR	0. 1	1	KM				DA

DISCIPLINE TITLE - CRYOSPHERE
 APPLICATION TITLE - POLAR ECOLOGY
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 5. 1. 2. 1

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
CURRENT LOCATION	DA	MON-YR	POLAR REGION	ALL SEASONS	
ICE EXTENT	DA	MON-YR	POLAR REGION	ALL SEASONS	
POLLUTANT CONCEN	DA	MON-YR	POLAR REGION	ALL SEASONS	
POLLUTANT TYPE	DA	MON-YR	POLAR REGION	ALL SEASONS	
SPECIES IDENTIFICATION	DA	MON-YR	POLAR REGION	ALL SEASONS	

DISCIPLINE TITLE - CRYOSPHERE
APPLICATION TITLE - FOOD RESOURCE
SUBAPPLICATION TITLE - NO TITLE
TREE - 5 1.2 2
PARAMETER

REFER.

DES
ACCUR.

BASED
ACCUR

ACCUR
UNITS

LOW
HORIZ
RESOL

HIGH
HORIZ
RESOL.

HORIZ
RES
UNITS

LOW
VERT
RESOL

HIGH
VERT
RESOL

VERT
RESOL
UNITS

FRESHNESS

DISCIPLINE TITLE - CRYOSPHERE
APPLICATION TITLE - FOOD RESOURCE
SUBAPPLICATION TITLE - NO TITLE
TREE - 5 1 2.2
PARAMETER

FREQUENCY
OF UPDATE

DURATION

AREAL
COVERAGE

OBSERVATION
TIME

COMMENTS

DISCIPLINE TITLE - CRYOSPHERE
 APPLICATION TITLE - ICE IMPACT ON WEATHER AND CLIMATE
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 5.1.3.1

PARAMETER	REFER.	DES ACCUR.	BASD ACCUR	ACCUR. UNITS	LOW HORIZ RESOL	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL.	VERT RESOL UNITS	FRESHNESS
ICE DEFORMATION RATE	L-0	50	100	M/YR							
ICE EXTENT	L-1	1.	25	KM	1.	25	KM				DA
ICE SURFACE ROUGHNESS	L-0				5.	100	KM				DA
ICE SURFACE TEMP	L-1	0.1	0.5	DEG C	5.	100.	KM				DA
ICE THICKNESS	L-0	10	100	CM	1.	3	KM				
ICE TYPE	L-0				1.	25.	KM				DA
PRECIP RATE	L-1				1.	25.	KM				3 HR-1 DA
PRECIP TYPE	L-1				1.	25	KM				3 HR-DA
SURFACE WIND SPEED	L-0				5.	100.	KM				DA

DISCIPLINE TITLE - CRYOSPHERE
 APPLICATION TITLE - ICE IMPACT ON WEATHER AND CLIMATE
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 5 1 3.1

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
ICE DEFORMATION RATE	YR		ABOVE 40 DEG		
ICE EXTENT	DA	MON-YR	ABOVE 40 DEG	ALL SEASONS	
ICE SURFACE ROUGHNESS	DA	MON-YR	ABOVE 40 DEG	ALL SEASONS	
ICE SURFACE TEMP	DA	MON-YR	ABOVE 40 DEG	ALL SEASONS	
ICE THICKNESS	YR				
ICE TYPE	DA	MON-YR	ABOVE 40 DEG	ALL SEASONS	1 2 MULT YR
PRECIP RATE	2-12 HR	MON-YR	ABOVE 40 DEG	ALL SEASONS	
PRECIP TYPE	2-12 HR	MON-YR	ABOVE 40 DEG	ALL SEASONS	RAIN SNOW HAIL
SURFACE WIND SPEED	DA	MON-YR	ABOVE 40 DEG	ALL SEASONS	

DISCIPLINE TITLE - CRYOSPHERE
 APPLICATION TITLE - ATMOSPHERE/CRYOSPHERE COUPLING ASSESSMENT
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 5 1.3.2

PARAMETER	REFER.	DES. ACCUR.	BASD ACCUR	ACCUR. UNITS	LOW HORIZ RESOL	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL.	VERT RESOL UNITS	FRESHNESS
AIR TEMP	L-1	0.2	1.0	DEG C	500	500.	KM				2 WK
ICE/SNOW ALBEDO	L-1	2.	2.	%	500	500.	KM				2 WK
ICE/SNOW EXTENT	L-1				1	1	M				2 WK
ICE/SNOW SURFACE TEMP	L-1	0.1	1.0	DEG C	200.	500	KM				2 WK
ICE/SNOW THICKNESS	L-1	10	10	CM	1	3	KM				2 WK

DISCIPLINE TITLE - CRYOSPHERE
 APPLICATION TITLE - ATMOSPHERE/CRYOSPHERE COUPLING ASSESSMENT
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 5 1 3.2

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
AIR TEMP	DA		GLOBAL	ALL SEASONS	
ICE/SNOW ALBEDO	MON		GLOBAL	ALL SEASONS	
ICE/SNOW EXTENT	DA		GLOBAL	ALL SEASONS	
ICE/SNOW SURFACE TEMP	MON		GLOBAL	ALL SEASONS	
ICE/SNOW THICKNESS	MON		GLOBAL	ALL SEASONS	

DISCIPLINE TITLE - CRYOSPHERE
 APPLICATION TITLE - SNOW MELTING MODELLING
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 5.2.1.1

PARAMETER	REFER.	DES. ACCUR.	BASED ACCUR	ACCUR. UNITS	LOW HORIZ RESOL	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL.	VERT RESOL UNITS	FRESHNESS
FREE WATER CONTENT	L-34	1.0	3.0	CM/CM	1.0	50.0	KM				
ICE/SNOW ALBEDO	L-34	0.2	3.0	%	0.1	50	KM				
SNOW COVER	L-34	1.0	9.0	%	1.0	50	KM				
SNOW DENSITY	L-34										
SNOW DEPTH	L-34		5.0	CM	1.0	50.0	KM	5.0	5.0	CM	
SNOW SURFACE TEMP	L-0	0.1	1.0	DEG C	0.005	50.	KM				
SNOW/WATER CONTENT	L-34										
SNOW/WATER EQUIVALENT	L-34										
SOIL MOISTURE	L-34	0.5	0.5	CC/CC	1.0	50.	KM				

DISCIPLINE TITLE - CRYOSPHERE
 APPLICATION TITLE - SNOW MELTING MODELLING
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 5 2 1.1

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
FREE WATER CONTENT	DA-MON				
ICE/SNOW ALBEDO	DA-MON				
SNOW COVER	DA-MON				L-160
SNOW DENSITY					
SNOW DEPTH	2/DA-1 DA				L-160
SNOW SURFACE TEMP	DA-MON				6-160
SNOW/WATER CONTENT					
SNOW/WATER EQUIVALENT					
SOIL MOISTURE	HR-MON				L-160

DISCIPLINE TITLE - CRYOSPHERE
 APPLICATION TITLE - SNOW PACK PROPERTIES RESEARCH
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 5 2.1 2

PARAMETER	REFER.	DES ACCUR.	BASED ACCUR.	ACCUR UNITS	LOW HORIZ RESOL	HIGH HORIZ RESOL	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL.	VERT RESOL UNITS	FRESHNESS
ICE/SNOW ALBEDO	L-34	0 2	3	%	1.	50.	KM				
ICE/SNOW EXTENT	L-34	1	30.	%	1.	50	KM				
ICE/SNOW MELT	L-34										
ICE/SNOW SURFACE TEMP	L-34	0 1	1	DEG C	1.	50	KM				
SNOW COVER	L-34	1	5.	%	1.	50	KM				
SNOW DEPTH	L-34		5.	CM	1.	50	KM	5.		CM	
WATER EQUIVALENT	L-34	1.	3	CM/CM2	1.	50.	KM				

DISCIPLINE TITLE - CRYOSPHERE
 APPLICATION TITLE - SNOW PACK PROPERTIES RESEARCH
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 5 2.1.2

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
ICE/SNOW ALBEDO	DA-MON	MON-YR	ABOVE 40 DEG		
ICE/SNOW EXTENT	4 DA-WK	MON-YR	ABOVE 40 DEG		
ICE/SNOW MELT		MON-YR			
ICE/SNOW SURFACE TEMP	DA-MON	MON-YR	ABOVE 40 DEG		
SNOW COVER		MON-YR	ABOVE 30 DEG		3-7 DA TRANSITORY RESOLUTION
SNOW DEPTH	2/DA-DA	MON-YR	ABOVE 40 DEG		
WATER EQUIVALENT	DA-MON	MON-YR	ABOVE 40 DEG		3-7 DA TRANSITORY RESOLUTION

DISCIPLINE TITLE - CRYOSPHERE
APPLICATION TITLE - SEASONAL SNOW ON LAND
SUBAPPLICATION TITLE - NO TITLE
TREE - 5 2.1.3

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
ICE/SNOW MELT			GLOBAL	SNOW SEASON	
SNOW COVER			GLOBAL	SNOW SEASON	
WATER EQUIVALENT			GLOBAL	SNOW SEASON	

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DISCIPLINE TITLE - CRYOSPHERE
APPLICATION TITLE - SNOW HYDROLOGY
SUBAPPLICATION TITLE - NO TITLE
TREE - 5.2 1.4

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[illegible]

DISCIPLINE TITLE - CRYOSPHERE
APPLICATION TITLE - SNOW HYDROLOGY
SUBAPPLICATION TITLE - NO TITLE
TREE - 5 2 1 4
PARAMETER

ICE/SNOW MELT
ICE/SNOW SURFACE TEMP
SNOW COVER
SNOW DENSITY
SNOW DEPTH
WATER CONTENT
WATER EQUIVALENT

FREQUENCY
OF UPDATE

DURATION

MIN-MON
WK
2/DA-1DA
WK

AREAL
COVERAGE

SNOW AREA
SNOW AREA
SNOW AREA
SNOW AREA
SNOW AREA
SNOW AREA
SNOW AREA

OBSERVATION
TIME

SNOW SEASON
SNOW SEASON
SNOW SEASON
SNOW SEASON
SNOW SEASON
SNOW SEASON
SNOW SEASON

COMMENTS

L160

L160

DISCIPLINE TITLE - CRYOSPHERE
 APPLICATION TITLE - SEA ICE DYNAMICS
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 5 2.2.1

PARAMETER	REFER	DES. ACCUR	BASED ACCUR	ACCUR UNITS	LOW HORIZ RESOL.	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL	HIGH VERT RESOL.	VERT RESOL UNITS	FRESHNESS
ICE AGE	L-1				1	20.	KM				DA
ICE BOUNDARY	L-34	0.5	20.	KM	0.5	20.	KM				DA
ICE CONCEN	L-34	2	20.	%	2	25	KM				DA
ICE DEFORMATION RATE	L-1	50.	100.	M/YR	0.01	100.	KM				
ICE DRIFT RATE	L-1	1.		KM/DA	0.005	20	KM				
ICE FLOE LOCATION	L-34	20.	100	M	20.	100.	M				DA
ICE LEAD FRACTIONAL AREA	L-34	10.	50.	%	50.	100.	M				DA
ICE LEAD ORIENTATION	L-34	10.	30.	DEG							DA
ICE MOVEMENT	L-34	0.05	1	KM/DA	1.	100.	KM				DA
ICE SURFACE ROUGHNESS	L-1	0.1	1	M	1.	100.	M				
ICE SURFACE TEMP	L-34	1.	3	DEG K	25	100.	KM				DA
ICE THICKNESS	L-34	0.2	1.	M	0.05	100.	KM				DA
ICE TYPE	L-34	5	10		1.	25	KM				DA
ICE/SNOW ALBEDO	L-34	0.02	0.04		25	100.	KM				DA
ICE/SNOW MELT	L-34				25.		KM				DA
RIDGING DENSITY	L-34	10.	50.	%	50.	100.	M				DA
RIDGING HEIGHT	L-34	1.	5.	M							DA
RIDGING ORIENTATION	L-34	10.	30.	DEG							DA
SALINITY	L-1				1.	20	KM				DA
SEA SURFACE TEMP	L-34	0.2	2.	DEG K	10.	25.	KM				DA
SURFACE PRESSURE	L-34	0.5	1.	MB	25	50.	KM				DA
SURFACE WIND SPEED	L-34	10.	20	DEG	25.	50.	KM				DA

DISCIPLINE TITLE - CRYOSPHERE
 APPLICATION TITLE - SEA ICE DYNAMICS
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 5.2.2.1

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
ICE AGE	2/DA-3 DA	DA-YR	OPEN SEA	ALL SEASONS	1, 2 MULT
ICE BOUNDARY	1-3 DA	DA-YR	OPEN SEA	ALL SEASONS	
ICE CONCEN	1-3 DA	DA-YR	OPEN SEA	ALL SEASONS	
ICE DEFORMATION RATE	MON-YR	DA-YR	OPEN SEA	ALL SEASONS	
ICE DRIFT RATE	4/DA-3 DA	DA-YR	OPEN SEA	ALL SEASONS	
ICE FLOE LOCATION	6 HR-2 DA	DA-YR	OPEN SEA	ALL SEASONS	
ICE LEAD FRACTIONAL AREA	1-3 DA	DA-YR	OPEN SEA	ALL SEASONS	
ICE LEAD ORIENTATION	1-3 DA	DA-YR	OPEN SEA	ALL SEASONS	
ICE MOVEMENT	6 HR-7 DA	DA-YR	OPEN SEA	ALL SEASONS	
ICE SURFACE ROUGHNESS	MON-YR	DA-YR	OPEN SEA	ALL SEASONS	
ICE SURFACE TEMP	1-3 DA	DA-YR	OPEN SEA	ALL SEASONS	
ICE THICKNESS	1 DA-1 MON	DA-YR	OPEN SEA	ALL SEASONS	
ICE TYPE	7 DA-1 MON	DA-YR	OPEN SEA	ALL SEASONS	THICKNESS INFO CAN BE INFERRED FROM ICE TYPE
ICE/SNOW ALBEDO	3 DA-2 WK	DA-YR	OPEN SEA	ALL SEASONS	
ICE/SNOW MELT	1-3 DA	DA-YR	OPEN SEA	ALL SEASONS	WET/DRY
RIDGING DENSITY	7 DA-1 MON	DA-YR	OPEN SEA	ALL SEASONS	
RIDGING HEIGHT	1 DA-1 MON	DA-YR	OPEN SEA	ALL SEASONS	1, 2 MULT
RIDGING ORIENTATION	7 DA-1 MON	DA-YR	OPEN SEA	ALL SEASONS	
SALINITY	2/DA-3 DA	DA-YR	OPEN SEA	ALL SEASONS	
SEA SURFACE TEMP	1-3 DA	DA-YR	OPEN SEA	ALL SEASONS	
SURFACE PRESSURE	1-3 DA	DA-YR	OPEN SEA	ALL SEASONS	
SURFACE WIND SPEED	1-3 DA	DA-YR	OPEN SEA	ALL SEASONS	

DISCIPLINE TITLE - CRYOSPHERE
 APPLICATION TITLE - HEAT BUDGET OF POLAR SEAS
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 5 2.2.3

PARAMETER	REFER.	DES. ACCUR.	BASED ACCUR	ACCUR UNITS	LOW HORIZ RESOL.	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL	HIGH VERT RESOL.	VERT RESOL UNITS	FRESHNESS
CLOUD COVER	L-54	1.	20	%	0.5	500	KM				
CLOUD TOP TEMP	L-0	0.1	2	DEG C	1	500.	KM				
CLOUD/ATMOS ALBEDO	L-0	0.92	5.	%	10.	500	KM				
CONDUCTIVE HEAT FLUX	L-0										
EVAPORATION RATE	L-54		100.	W/CM2	500		KM				
HEAT TRANSPORT	L-54										
ICE DRIFT RATE	L-54				0.05	25	KM				
ICE EXTENT	L-54	1.	30.	%	1.	100.	KM				
ICE SURFACE TEMP	L-54	0.1	1.	DEG C	0.1	200.	KM				
LATENT HEAT	L-54										
PRECIP AMOUNT	L-0		0.1	CM/CM2	5.	500.	KM				
PRECIP EXTENT	L-0		10.	%	5.	500.	KM				
PRECIP RATE	L-0	0.5	2.	CM/HR	3	200.	KM				
PRECIP TYPE	L-0				2	200.	KM				
SALINITY	L-54	0.005	0.05	PPT	0.05	200.	KM				
SENSIBLE HEAT FLUX	L-54										
VERT HUMIDITY PROF	L-0	1.	30.	%	5	500.		0.03	5.	KM	

DISCIPLINE TITLE - CRYOSPHERE
 APPLICATION TITLE - HEAT BUDGET OF POLAR SEAS
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 5.2 2.3

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
CLOUD COVER	MIN-DA		POLAR AREA	ALL SEASONS	L-160
CLOUD TOP TEMP	3 HR-DA		POLAR AREA	ALL SEASONS	L-160
CLOUD/ATMOS ALBEDO	HR-MON		POLAR AREA	ALL SEASONS	L-160
CONDUCTIVE HEAT FLUX					
EVAPORATION RATE	MON		POLAR AREA	ALL SEASONS	L-160
HEAT TRANSPORT					
ICE DRIFT RATE	DA		POLAR AREA	ALL SEASONS	L-160
ICE EXTENT	4/DA-1 WK		POLAR AREA	ALL SEASONS	L-160
ICE SURFACE TEMP	HR-DA		POLAR AREA	ALL SEASONS	L-160
LATENT HEAT					
PRECIP AMOUNT	MIN-2/DA		POLAR AREA	ALL SEASONS	L-160
PRECIP EXTENT	MIN-2/DA		POLAR AREA	ALL SEASONS	L-160
PRECIP RATE	MIN-DA		POLAR AREA	ALL SEASONS	L-160
PRECIP TYPE	MIN-DA		POLAR AREA	ALL SEASONS	L-160
SALINITY	HR-YR		POLAR AREA	ALL SEASONS	L-160 RAIN/HAIL/SNOW
SENSIBLE HEAT FLUX			POLAR AREA	ALL SEASONS	L-160
VERT HUMIDITY PROF	MIN-DA		POLAR AREA	ALL SEASONS	L-160

DISCIPLINE TITLE - CRYOSPHERE
APPLICATION TITLE - ICE SHEET DYNAMICS
SUBAPPLICATION TITLE - NO TITLE
TREE - 5.2.3.1

[illegible]

DISCIPLINE TITLE - CRYOSPHERE
 APPLICATION TITLE - ICE SHEET DYNAMICS
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 5.2.3.1

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
HORIZONTAL WIND	5-10 YR		POLAR REGION	ALL SEASONS	
ICE ACCUMULATION RATE	1-10 YR		POLAR REGION	ALL SEASONS	
ICE SHEET BOUNDARY	1-10 YR		POLAR REGION	ALL SEASONS	
ICE SURFACE ELEVATION			POLAR REGION	ALL SEASONS	
ICE SURFACE ELEVATION CHANGE	90 DA-10 YR		POLAR REGION	ALL SEASONS	
ICE SURFACE TEMP	1-10 YR		POLAR REGION	ALL SEASONS	
ICE/SNOW MELT	1-3 DA		POLAR REGION	ALL SEASONS	
STRAIN RATES	5-10 YR		POLAR REGION	ALL SEASONS	

DISCIPLINE TITLE - CRYOSPHERE
 APPLICATION TITLE - ICEBERG DYNAMICS
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 5 2 3.2

PARAMETER	REFER.	DES ACCUR.	BASED ACCUR.	ACCUR UNITS	LOW HORIZ RESOL	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL	HIGH VERT RESOL.	VERT RESOL UNITS	FRESHNESS
BOTTOM CONDITIONS	L-34										
ICE ACCUMULATION RATE	L-34	10	50		10	100	KM				
ICE BOUNDARY	L-34	100.	100	M	100.		M				
ICE INTERNAL PROPERTIES	L-34										
ICE MOVEMENT	L-34	0.01	1	M/YR							
ICE STRAIN RATE	L-34	0.000*	0.0001	/YR							
ICE SURFACE ELEVATION	L-34	1.	10	M	5	50	KM				
ICE SURFACE ELEVATION CHANGE	L-34	10.	50	CM	5		KM				
ICE SURFACE ROUGHNESS	L-34	0.01	1	M	10.	100.	KM				
ICE THICKNESS	L-34	10.	50.	M	5.	50	KM				
ICE/SNOW MELT	L-34	10		CM/YR	10	100.	KM				
ICEBERG LOCATION	L-34	5.	100.	M	5	100.	M				
ICEBERG VOLUME DISCHARGE	L-34	5	20	%							
SURFACE TEMP		0.2	1.	DEG K	10	100.	KM				

DISCIPLINE TITLE - CRYOSPHERE
 APPLICATION TITLE - ICEBERG DYNAMICS
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 5.2.3.2

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
BOTTOM CONDITIONS			>40 DEG N & S	ALL SEASONS	
ICE ACCUMULATION RATE	1 YR		>40 DEG N & S LAT	ALL SEASONS	
ICE BOUNDARY	1 YR		>40 DEG N & S LAT	ALL SEASONS	
ICE INTERNAL PROPERTIES			>40 DEG N & S LAT	ALL SEASONS	
ICE MOVEMENT	5 YR		>40 DEG N & S LAT	ALL SEASONS	
ICE STRAIN RATE	5 YR		>40 DEG N & S LAT	ALL SEASONS	
ICE SURFACE ELEVATION			>40 DEG N & S LAT	ALL SEASONS	
ICE SURFACE ELEVATION CHANGE	90 DA		>40 DEG N & S LAT	ALL SEASONS	
ICE SURFACE ROUGHNESS	90 DA		>40 DEG N & S LAT	ALL SEASONS	
ICE THICKNESS			>40 DEG N & S LAT	ALL SEASONS	
ICE/SNOW MELT	1 DA		>40 DEG N & S LAT	ALL SEASONS	
ICEBERG LOCATION	6 HR		>40 DEG N & S LAT	ALL SEASONS	
ICEBERG VOLUME DISCHARGE	90 DA		>40 DEG N & S LAT	ALL SEASONS	
SURFACE TEMP	1 YR		>40 DEG N & S LAT	ALL SEASONS	

SELECT POINTS
 SELECT LINES

DISCIPLINE TITLE - CRYOSPHERE
 APPLICATION TITLE - POLAR ICE MOTION
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 5.3.1.1

PARAMETER	REFER.	DES ACCUR.	BASD ACCUR	ACCUR UNITS	LOW HORIZ RESOL.	HIGH HORIZ RESOL	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL	VERT RESOL UNITS	FRESHNESS
ICE MOVEMENT	L-34	0.05	1.	KM/DA	1	100.	KM				
ICE TYPE	L-34	5.	10.	%	1.	25	KM				
OCEAN SURFACE WIND DIR	L-34	10.	20	DEG	25	50.	KM				
OCEAN SURFACE WIND SPEED	L-34				25.	50.	KM				

DISCIPLINE TITLE - CRYOSPHERE
 APPLICATION TITLE - POLAR ICE MOTION
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 5.3 1.1
 PARAMETER

FREQUENCY
 OF UPDATE

DURATION

AREAL
 COVERAGE

OBSERVATION
 TIME

COMMENTS

ICE MOVEMENT

ICE TYPE

OCEAN SURFACE WIND DIR

OCEAN SURFACE WIND SPEED

6 HR-7 DA

7 DA-1 MON

1-3 DA

1-3 DA

POLAR REGION

POLAR REGION

POLAR REGION

POLAR REGION

ALL SEASONS

ALL SEASONS

ALL SEASONS

ALL SEASONS

DISCIPLINE TITLE - CRYOSPHERE
 APPLICATION TITLE - SEA ICE MOVEMENT
 SUBAPPLICATION TITLE - ICE
 TREE - S. 3. 1. 2

PARAMETER	REFER.	DES ACCUR.	BASD ACCUR	ACCUR. UNITS	LOW HORIZ RESOL	HIGH HORIZ RESOL	HORIZ RES UNITS	LOW VERT RESOL	HIGH VERT RESOL	VERT RESOL UNITS	FRESHNESS
ICE MOVEMENT	L-34	0.05	1.	KM/DA	1	100.	KM				
ICE TYPE	L-34	5.	10.	%	1	25.	KM				
OCEAN SURFACE WIND DIR	L-34	10.	20.	DEG	25.	50.	KM				
OCEAN SURFACE WIND SPEED	L-34				25	50	KM				

DISCIPLINE TITLE - CRYOSPHERE
 APPLICATION TITLE - SEA ICE MOVEMENT
 SUBAPPLICATION TITLE - ICE
 TREE - 5 3. 1. 2
 PARAMETER

FREQUENCY
 OF UPDATE

DURATION

AREAL
 COVERAGE

OBSERVATION
 TIME

COMMENTS

ICE MOVEMENT 6 HR-7 DA
 ICE TYPE 7 DA-1 MON
 OCEAN SURFACE WIND DIR 1-3 DA
 OCEAN SURFACE WIND SPEED 1-3 DA

OPEN SEA
 OPEN SEA
 OPEN SEA
 OPEN SEA

ALL SEASONS
 ALL SEASONS
 ALL SEASONS
 ALL SEASONS

DISCIPLINE TITLE - CRYOSPHERE
 APPLICATION TITLE - RIVER AND LAKE ICE FORECAST
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 5.3.3.1

PARAMETER	REFER.	DES. ACCUR.	BASED ACCUR	ACCUR. UNITS	LOW HORIZ RESOL.	HIGH HORIZ RESOL	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL.	VERT RESOL UNITS	FRESHNESS
ICE AGE	L-162				2.	20	KM				
ICE BOTTOM SURFACE ROUGHNESS	L-168	0.1	1.	M	2.	10.	M	0.1	1.	M	
ICE EXTENT	L-0	0.001	50.	KM	0.001	50	KM				
ICE LEAD LOCATION/SIZING	L-162	5.	100.	M	5	100.	M				
ICE SURFACE ROUGHNESS	L-16	0.1	1.	M	1	10	M	0.1	1.	M	
ICE SURFACE TEMP	L-0	0.1		DEG C	0.005	500	KM				
ICE THICKNESS	L-162	0.25	0.5	M	2.	20.	KM	10.	30.	CM	
OCEAN SURFACE CURRENT AMP	L-162	5.		CM/S	1.	20.	KM				
OCEAN SURFACE CURRENT DIR	L-162				1	20.	KM				
SALINITY	L-162				2	20.	KM				

DISCIPLINE TITLE - CRYOSPHERE
 APPLICATION TITLE - RIVER AND LAKE ICE FORECAST
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 5.3.3.1

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
ICE AGE	3 DA		RIVER&LAKE	ICE SEASON	1, 2 MULT
ICE BOTTOM SURFACE ROUGHNESS	MON		RIVER&LAKE	ICE SEASON	L-O
ICE EXTENT	3 HR-YR		RIVER&LAKE	ICE SEASON	
ICE LEAD LOCATION/SIZING	10/DA		RIVER&LAKE	ICE SEASON	L-O
ICE SURFACE ROUGHNESS	MON		RIVER&LAKE	ICE SEASON	L-O
ICE SURFACE TEMP	MIN-MON		RIVER&LAKE	ICE SEASON	L-O
ICE THICKNESS	2/DA-3 DA		RIVER&LAKE	ICE SEASON	L-O
OCEAN SURFACE CURRENT AMP	2-5 DA		RIVER&LAKE	ICE SEASON	L-O
OCEAN SURFACE CURRENT DIR	2-5 DA		RIVER&LAKE	ICE SEASON	L-O
SALINITY	2/DA-3 DA		RIVER&LAKE	ICE SEASON	L-O

DISCIPLINE TITLE - CRYOSPHERE
 APPLICATION TITLE - ICEBERG MOVEMENT
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 5 3 4.1

PARAMETER	REFER	DES ACCUR	BASED ACCUR.	ACCUR. UNITS	LOW HORIZ RESOL.	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL.	VERT RESOL UNITS	FRESHNESS
HORIZONTAL WIND	L-34	0.1	1	M/YR							
ICEBERG LOCATION	L-34	5.	100.	M	5	100.	M				
OCEAN CURRENT	L-0	1.	100.		1.	100.	KM				
SURFACE WIND SPEED	L-34	10.	20.	DEG	25.	50	KM				

DISCIPLINE TITLE - CRYOSPHERE
 APPLICATION TITLE - ICEBERG MOVEMENT
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 5 3. 4. 1

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
HORIZONTAL WIND	5-10 YR		POLAR REGION	ALL SEASONS	SELECT POINTS
ICEBERG LOCATION	6 HR-2 DA		POLAR REGION	ALL SEASONS	
OCEAN CURRENT	HR-DA		POLAR REGION	ALL SEASONS	
SURFACE WIND SPEED	1-3 DA		POLAR REGION	ALL SEASONS	L-160

DISCIPLINE TITLE - CRYOSPHERE
 APPLICATION TITLE - SHIP ROUTING IN POLAR REGIONS
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 5 4 1

PARAMETER	REFER	DES ACCUR	BASED ACCUR.	ACCUR UNITS	LOW HORIZ RESOL	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL	HIGH VERT RESOL	VERT RESOL UNITS	FRESHNESS
ICEBERG LOCATION	L-34	5	100.	M	5	100	M				
SHIP DENSITY	L-0										
SHIP LOCATION	L-34	1.	100	M	1	100.	M				

DISCIPLINE TITLE - CRYOSPHERE
 APPLICATION TITLE - SHIP ROUTING IN POLAR REGIONS
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 5.4.1

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
ICEBERG LOCATION	6 HR-2 DA		POLAR REGION	ALL SEASONS	
SHIP DENSITY	4/DA		POLAR REGION	ALL SEASONS	
SHIP LOCATION	4/DA		POLAR REGION	ALL SEASONS	

DISCIPLINE TITLE - CRYOSPHERE
 APPLICATION TITLE - OIL SITE SCHEDULING AND RESUPPLY
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 5.4 2
 PARAMETER

	REFER.	DES. ACCUR.	BASED ACCUR	ACCUR. UNITS	LOW HORIZ RESOL	HIGH HORIZ RESOL	HORIZ RES UNITS	LOW VERT RESOL	HIGH VERT RESOL	VERT RESOL UNITS	FRESHNESS
ICEBERG LOCATION	L-34	5	100	M	5.	100.	M				NRT
OIL PLATFORM LOCATION	L-34										
SHIP LOCATION	L-34	1.	100.	M	1.	100.	M				NRT

DISCIPLINE TITLE - CRYOSPHERE
APPLICATION TITLE - OIL SITE SCHEDULING AND RESUPPLY
SUBAPPLICATION TITLE - NO TITLE
TREE - 5.4.2

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
ICEBERG LOCATION	6 HR-2 DA		POLAR REGION	ALL SEASONS	
OIL PLATFORM LOCATION	MON		POLAR REGION	ALL SEASONS	
SHIP LOCATION	4/DA		POLAR REGION	ALL SEASONS	

DISCIPLINE TITLE - CRYOSPHERE
 APPLICATION TITLE - POLAR ICE MAPPING
 SUBAPPLICATION TITLE - ICEX POLAR ICE MAPPING
 TREE - 5.4.3

PARAMETER	REFER.	DES ACCUR.	BASED ACCUR.	ACCUR UNITS	LOW HORIZ RESOL.	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL.	VERT RESOL UNITS	FRESHNESS
ICE AGE	L-34	0.5	1	YR	1.	500					
ICE BOUNDARY	L-34	0.5	20	KM	0.5	20.	KM				
ICE CONCEN	L-34	2.	20.	%	1.	25.	KM				
ICE SHEET THICKNESS	L-34	10.	50.	M	5.	50.	KM				
ICE TYPE	L-34	5.	10.	%	1.	25.	KM				
SEA ICE THICKNESS	L-34	0.2	1.	M	0.05	100.	KM				

DISCIPLINE TITLE - CRYOSPHERE
 APPLICATION TITLE - POLAR ICE MAPPING
 SUBAPPLICATION TITLE - ICEX POLAR ICE MAPPING
 TREE - 5.4.3

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
ICE AGE	4/DA-YR		POLAR REGION	ALL SEASONS	
ICE BOUNDARY	1-3 DA		POLAR REGION	ALL SEASONS	
ICE CONCEN	1-3 DA		POLAR REGION	ALL SEASONS	
ICE SHEET THICKNESS	MON-YR		POLAR REGION	ALL SEASONS	
ICE TYPE	7 DA-1 MON		POLAR REGION	ALL SEASONS	
SEA ICE THICKNESS	DA-MON		POLAR REGION	ALL SEASONS	

Air Quality Applications
Data Sheets

DISCIPLINE TITLE - AIR QUALITY
 APPLICATION TITLE - ATMOSPHERIC COMPOSITION ASSESMENT
 SUBAPPLICATION TITLE - ATMOSPHERIC COMPOSITON ASSESSMENT
 TREE - 6 1.1.1.1

PARAMETER	REFER.	DES ACCUR	BASD ACCUR	ACCUR UNITS	LOW HORIZ RESOL.	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL.	VERT RESOL UNITS	FRESHNESS
AEROSOLS	L-1	5		%	50	50.	KM	1.	1	KM	
CH4	L-1	0.2		PPM	10.	10	KM	1.	1.	KM	
CO	L-1	10.		PPB	50	50.	KM	1.	1.	KM	
NH3	L-1	10		PPB	10.	10.	KM	1.	1.	KM	
OZONE	L-1	1.		PPB	50	50	KM	1.	1.	KM	
SO2	L-1	0.5		PPB	500.	500.	KM	1.	1.	KM	

DISCIPLINE TITLE - AIR QUALITY
 APPLICATION TITLE - ATMOSPHERIC COMPOSITION ASSESMENT
 SUBAPPLICATION TITLE - ATMOSPHERIC COMPOSITON ASSESSMENT
 TREE - 6.1 1.1 1

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
AEROSOLS	DA		LOCAL OR GLOBAL		
CH4	DA		LOCAL OR GLOBAL		
CO	DA		LOCAL OR GLOBAL		
NH3	DA		LOCAL OR GLOBAL		
OZONE	DA		LOCAL OR GLOBAL		
SO2	DA		LOCAL OR GLOBAL		

DISCIPLINE TITLE - AIR QUALITY
 APPLICATION TITLE - ATMOSPHERIC COMPOSITION ASSESMENT
 SUBAPPLICATION TITLE - TROPOSPHERE CONTAMINATION
 TREE - 6.1.1.1 2

PARAMETER	REFER.	DES ACCUR.	BASED ACCUR.	ACCUR UNITS	LOW HORIZ RESOL.	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL.	VERT RESOL UNITS	FRESHNESS
AEROSOLS	L-171	20.	25.	%	50	50.	KM	1.	1.	KM	
CFXCLY	L-171	10		PPB	50.	50.	KM	1.	1.	KM	
CH4	L-171	1.		PPB	50.	50	KM	1.	1.	KM	
CO	L-171	10		PPB	50.	50.	KM	1.	1.	KM	
CO2	L-171	0.5		PPB	50.	50.	KM	1.	1	KM	
CXHY	L-171	1.		PPB	50.	50	KM	1	1.	KM	
CXHYCL2	L-171	10.		PPB	50.	500.	KM	1	2.	KM	
Hg	L-171	0.01		PPB							
H2O	L-171	0.5		PPM	50	500.	KM	1	2	KM	
H2S	L-171	0.1		PPB	100	100.	KM	10	10.	KM	
NH3	L-171	20		%	100.	100.	KM	1	1.	KM	
NO	L-171	10.	100	PPB	50.	50.	KM	1.	1.	KM	
N2O	L-171	50.		PPB	50.	50.	KM	1.	1.	KM	
OZONE	L-171	1.	10.	%	50.	500.	KM	1	10	KM	
PB	L-171	0.01		PPB							
SO2	L-171	0.5	10	PPB	100.	100.	KM	10	10.	KM	

DISCIPLINE TITLE ~ AIR QUALITY
 APPLICATION TITLE ~ ATMOSPHERIC COMPOSITION ASSESMENT
 SUBAPPLICATION TITLE ~ TROPOSPHERE CONTAMINATION
 TREE ~ 6.1 1.1 2

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
AEROSOLS	DA		LOCAL OR GLOBAL		
CFXCLY	DA		LOCAL OR GLOBAL		
CH4	DA		LOCAL OR GLOBAL		
CO	DA		LOCAL OR GLOBAL		
CO2	DA		LOCAL OR GLOBAL		
CXHY	DA		LOCAL OR GLOBAL		
CXHYCL2	DA		LOCAL OR GLOBAL		
HG			LOCAL OR GLOBAL		
H2O	DA		LOCAL OR GLOBAL		
H2S	DA		LOCAL OR GLOBAL		
NH3	DA		LOCAL OR GLOBAL		
NO	DA		LOCAL OR GLOBAL		
N2O	DA		LOCAL OR GLOBAL		
OZONE	DA		LOCAL OR GLOBAL		
PB			LOCAL OR GLOBAL		
SO2	DA		LOCAL OR GLOBAL		

DISCIPLINE TITLE - AIR QUALITY
 APPLICATION TITLE - ATMOSPHERIC COMPOSITION ASSESMENT
 SUBAPPLICATION TITLE - STRATOSPHERE CONTAMINATION
 TREE - 6 1.1.1.3

PARAMETER	REFER.	DES ACCUR.	BASED ACCUR.	ACCUR. UNITS	LOW HORIZ RESOL.	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL.	VERT RESOL UNITS	FRESHNESS
AEROSOLS	L-171	5	75.	%	50.	500.	KM	5.	5.	KM	
CFXCLY	L-171	0 001		PPB	50.	500.	KM				
CH4	L-171	0 2		PPM	10.	500.	KM	1	5.	KM	
CLO	L-171	1.		PPB	50	500.	KM				
CXHY	L-171	1		PPB	50	500.	KM	1.	5	KM	
CXHYCL2	L-171	0 001		PPB	50.	500.	KM				
HCL	L-171	1.		PPB	50.	500.	KM				
HF	L-171	1.		PPB	50.	500.	KM				
HNO3	L-171	1.		PPB	10.	500.	KM	1.	5.	KM	
H2O	L-171	0 5		PPM	10.	500	KM	1	2 5 3	KM	
NH3	L-171	10		PPB	10.	500	KM	1.	5.	KM	
NO	L-171	10	100.	PPB	10.	500	KM	1	5.	KM	
NO2	L-171	10.	100.	PPB	10.	500.	KM	1.	5.	KM	
N2O	L-171	50.		PPB	10	500.	KM	1	5.	KM	
O-	L-171	5.	25	%	50.	500	KM	5	5.	KM	
OH	L-171	5.	25.	%	50	500	KM	5	5.	KM	
OZONE	L-171	10.		PPB	100.	100.	KM	0. 5	2.	KM	

DISCIPLINE TITLE - AIR QUALITY
 APPLICATION TITLE - ATMOSPHERIC COMPOSITION ASSESMENT
 SUBAPPLICATION TITLE - STRATOSPHERE CONTAMINATION
 TREE - 6 1 1 1.3

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
AEROSOLS	DA		LOCAL OR GLOBAL		
CFXCLY	DA		LOCAL OR GLOBAL		COLUMN-VR
CH4	DA		LOCAL OR GLOBAL		
ClO	DA		LOCAL OR GLOBAL		COLUMN-VR
CXHY	DA		LOCAL OR GLOBAL		
CXHYCL2	DA		LOCAL OR GLOBAL		COLUMN-VR
HCL	DA		LOCAL OR GLOBAL		COLUMN-VR
HF	DA		LOCAL OR GLOBAL		COLUMN-VR
HNQ3	DA		LOCAL OR GLOBAL		
H2O	DA		LOCAL OR GLOBAL		
NH3	DA		LOCAL OR GLOBAL		
NO	DA		LOCAL OR GLOBAL		
NO2	DA		LOCAL OR GLOBAL		
N2O	DA		LOCAL OR GLOBAL		
O-	DA		LOCAL OR GLOBAL		
OH	DA		LOCAL OR GLOBAL		
OZONE	DA		LOCAL OR GLOBAL		

DISCIPLINE TITLE - AIR QUALITY
 APPLICATION TITLE - ATMOSPHERIC COMPOSITION ASSESMENT
 SUBAPPLICATION TITLE - UPPER ATMOSPHERE RESEARCH
 TREE - 6 1. 1. 1. 4

PARAMETER	REFER	DES ACCUR.	BASED ACCUR.	ACCUR UNITS	LOW HORIZ RESOL	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL	VERT RESOL UNITS	FRESHNESS
AEROSOLS	L-169	5.	25	%	50	500	KM	1.	5	KM	
AL	L-160	10.	10.	%	20	1000	KM	1.	5.	KM	
AR	L-169				1000	1000	KM	1.	5.	KM	
CA	L-160	10	10.	%	20	1000.	KM	1.	5.	KM	
CFXCLY	L-169	20.	20	%	500.	500.	KM	1.	5.	KM	
CH4	L-169	20.	20	%	100	500	KM	1.	5.	KM	
CL0	L-169	20.	20.	%	500.	500.	KM	1.	5.	KM	
CLONO2	L-169	20.	20.	%	500.	500	KM	1	5.	KM	
CL2	L-169	1.	1.	PPB	50	50	KM				
CO	L-169	20.	20	%	500	500	KM	1.	5.	KM	
CO2	L-169	20.	20.	%	500.	500	KM	1.	5.	KM	
CXHYCL2	L-169	20.	20.	%	500	500.	KM	1.	5.	KM	
FE	L-160	10.	10.	%	20	1000.	KM	1	5.	KM	
H	L-169				1000	1000.	KM	5	5.	KM	
HCL	L-169	2.	20.	%	500	500.	KM	1.	5.	KM	
HE	L-169				1000	1000.	KM	5.	5.	KM	
HF	L-169	20.	20.	%	500.	500.	KM	1.	5.	KM	
HNO3	L-169	20.	20.	%	500	500.	KM	1.	5.	KM	
HOCL	L-169	20.	20.	%	500	500.	KM	1.	5.	KM	
H02	L-169	20.	20.	%	500.	500.	KM	1	5.	KM	
H20	L-169	50.	50.	%	100.	1600.	KM	1	5.	KM	
H202	L-169	20.	20	%	500	500.	KM	1	5.	KM	
LI	L-160	10.	10.	%	20	1000.	KM	1.	5.	KM	
MG	L-160	10.	10.	%	20	1000.	KM	1.	4.	KM	
MGO	L-160	10.	10.	%	20	1000.	KM	1.	5.	SM	
NA	L-169	10.	10.	%	20	1000.	KM	1.	5.	KM	
NAO	L-160	10.	10.	%	20.	1000.	KM	1	5.	KM	
NH3	L-169	10.	20	%	500.	500	KM	1.	5.	KM	
NI	L-160	10.	10.	%	-0	1000.	KM	1	5.	KM	
NO	L-169	20.	20	%	500	500.	KM	1.	5.	KM	
NO2	L-169	20.	20	%	500.	500.	KM	1.	5.	KM	
N20	L-169	20.	20.	%	500.	500.	KM	1	5.	KM	
N205	L-169	20.	20.	%	500.	500.	KM	1.	5.	KM	
O-	L-169	20.	20.	%	500.	500	KM	1.	10.	KM	
OH-	L-169	20.	20.	%	10	500	KM	1.	5.	KM	
OZONE	L-169	20.	20.	%	200.	500	KM	1.	5.	KM	
R	L-160	10.	10.	%	20	1000.	KM	1	5.	KM	
SO2	L-169	10.	20.	%	500.	500	KM	1	5.	KM	

DA

DISCIPLINE TITLE - AIR QUALITY
 APPLICATION TITLE - ATMOSPHERIC COMPOSITION ASSESMENT
 SUBAPPLICATION TITLE - UPPER ATMOSPHERE RESEARCH
 TREE - 6 1 1.1.4

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
AEROSOLS	DA		LOCAL OR GLOBAL		
AL			LOCAL OR GLOBAL		
AR			LOCAL OR GLOBAL		
CA			LOCAL OR GLOBAL		
CFXCLY	DA		LOCAL OR GLOBAL		
CH4	DA		LOCAL OR GLOBAL		
CLO	DA		LOCAL OR GLOBAL		
CLONO2	DA		LOCAL OR GLOBAL		
CL2	DA		LOCAL OR GLOBAL		
CO	DA		LOCAL OR GLOBAL		
CO2	DA		LOCAL OR GLOBAL		
CXHYCL2	DA		LOCAL OR GLOBAL		
FE			LOCAL OR GLOBAL		
H			LOCAL OR GLOBAL		
HCL	DA		LOCAL OR GLOBAL		
HE			LOCAL OR GLOBAL		
HF	DA		LOCAL OR GLOBAL		
HN03	DA		LOCAL OR GLOBAL		
HOCL	DA		LOCAL OR GLOBAL		
HO2	DA		LOCAL OR GLOBAL		
H2O	DA		LOCAL OR GLOBAL		
H2O2	DA		LOCAL OR GLOBAL		
LI			LOCAL OR GLOBAL		
MG			LOCAL OR GLOBAL		
MGD			LOCAL OR GLOBAL		
NA			LOCAL OR GLOBAL		
NAO			LOCAL OR GLOBAL		
NH3	DA		LOCAL OR GLOBAL		
NI			LOCAL OR GLOBAL		
NO	DA		LOCAL OR GLOBAL		
NO2	DA		LOCAL OR GLOBAL		
N2O	DA		LOCAL OR GLOBAL		
N2O5			LOCAL OR GLOBAL		
O-	DA		LOCAL OR GLOBAL		
OH-	DA		LOCAL OR GLOBAL		
OZONE	DA		LOCAL OR GLOBAL		
R			LOCAL OR GLOBAL		
S02	DA		LOCAL OR GLOBAL		

VERT RESOLUTION COLUMN

DISCIPLINE TITLE - AIR QUALITY
 APPLICATION TITLE - STRATOSPHERE/TROPOSPHERE INTERFACE
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 6.1 1 2

PARAMETER	REFER.	DES. ACCUR.	BASD ACCUR.	ACCUR UNITS	LOW HORIZ RESOL.	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL.	VERT RESOL UNITS	FRESHNESS
AEROSOLS	L-103	5	25	%	10	500	KM	.5	5.	KM	
CLOUD/ATMOS ALBEDO	L-103	2	5.	%	10.	500	KM				
H2O CONTENT	L-103	2	50	%	10.	500.	KM	.5	3.	KM	
SOLAR CONSTANT	L-103	1.5	5.	W/CM2							
STRATOPAUSE	L-103							11.	50.	KM	
TROPOPAUSE	L-103							0.	11.	KM	

DISCIPLINE TITLE - AIR QUALITY
 APPLICATION TITLE - STRATOSPHERE/TROPOSPHERE INTERFACE
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 6.1 1.2

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
AEROSOLS	DA		GLOBAL OR LOCAL	ALL SEASONS	L~160
CLOUD/ATMOS ALBEDO	HR-MON		GLOBAL OR LOCAL	ALL SEASONS	L~160
H2O CONTENT	DA		GLOBAL OR LOCAL	ALL SEASONS	L~160
SOLAR CONSTANT	DA		GLOBAL OR LOCAL	ALL SEASONS	
STRATOPAUSE			GLOBAL OR LOCAL	ALL SEASONS	
TROPOPAUSE			GLOBAL OR LOCAL	ALL SEASONS	

DISCIPLINE TITLE - AIR QUALITY
 APPLICATION TITLE - ATMOSPHERE RADIOACTIVE PROPERTY ASSESSMENT
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 6 1 1.3

PARAMETER	REFER.	DES ACCUR.	BASED ACCUR	ACCUR UNITS	LOW HORIZ RESOL	HIGH HORIZ RESOL	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL.	VERT RESOL UNITS	FRESHNESS
AEROSOLS	L-1	5.	5.	%	500.	500.	KM				1-2 WK
CLOUD COVER	L-103	1	20	%	.5	500	KM				
CLOUD/ATMOS ALBEDO	L-103	2	5	%	.1	500	KM				
CONVECTION	L-103										
EVAPORATION RATE	L-103										
H2O CONTENT	L-100	2	50.	%	10	500	KM	.5	3.	KM	
ICE/SNOW ALBEDO	L-103	.2	3	%	0.1	500	KM				
LAND ALBEDO	L-103	2.	3.	%	.01	500	KM				
LATENT HEAT	L-103										
OZONE	L-1	1.	1.	PPB	500.	500.	KM				1- WK
SENSIBLE HEAT FLUX	L-103										
SOLAR FLUX	L-103	1.5	5.	W/CM2							
TERRAIN TYPE	L-103										
TOPOGRAPHIC FEATURES	L-103	1	3.	CM	.05	1.	KM	1	3.	CM	
VERT HUMIDITY PROF	L-103	1	30.	%	5	500.	KM	.03	5.	KM	
WATER ALBEDO	L-103	.2	4.	%	1	500.	KM				

DISCIPLINE TITLE - AIR QUALITY
 APPLICATION TITLE - ATMOSPHERE RADIOACTIVE PROPERTY ASSESSMENT
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 6 1.1.3

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
AEROSOLS	DA		LOCAL OR GLOBAL		
CLOUD COVER	MN-DA		LOCAL OR GLOBAL		L-160
CLOUD/ATMOS ALBEDO	HR-MON		LOCAL OR GLOBAL		L-160
CONVECTION					
EVAPORATION RATE					
H2O CONTENT	DA		LOCAL OR GLOBAL		L-160
ICE/SNOW ALBEDO	DA-MON		LOCAL OR GLOBAL		L-160
LAND ALBEDO	DA OR ONCE		LOCAL OR GLOBAL		L-160
LATENT HEAT					
OZONE	DA		LOCAL OR GLOBAL		STRATOSPHERE
SENSIBLE HEAT FLUX					
SOLAR FLUX	DA		LOCAL OR GLOBAL		L-160
TERRAIN TYPE			LOCAL OR GLOBAL		L-160
TOPOGRAPHIC FEATURES			LOCAL OR GLOBAL		
VERT HUMIDITY PROF	MN-DA		LOCAL OR GLOBAL		L-160
WATER ALBEDO	HR-MON		LOCAL OR GLOBAL		L-160

DISCIPLINE TITLE - AIR QUALITY
 APPLICATION TITLE - POLLUTION MODELING
 SUBAPPLICATION TITLE - POLLUTION MODELING
 TREE - 6.1.2.1.1

PARAMETER	REFER.	DES ACCUR	BASED ACCUR	ACCUR. UNITS	LOW HORIZ RESOL.	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL.	VERT RESOL UNITS	FRESHNESS
AIR INSTABILITY	L-52										
MIXING CEILING	L-52										
POINT SOURCE POSITION	L-52				5	5.	KM				
POLLUTANT CONCEN	L-52										
POLLUTANT TYPE	L-52				5	5.	KM				
TOPOGRAPHIC FEATURES	L-52	1	3	CM	50	50.	KM	1.	1.	KM	
VERT WIND PROF	L-52	1	3.	MB	5	5	KM	.5	5	KM	
WIND SPEED	L-52				5	5	KM				

DISCIPLINE TITLE - AIR QUALITY
 APPLICATION TITLE - POLLUTION MODELING
 SUBAPPLICATION TITLE - POLLUTION MODELING
 TREE - 6.1.2 1 1

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
AIR INSTABILITY			LOCAL	AS NEEDED	L-160
MIXING CEILING			LOCAL	AS NEEDED	L-160
POINT SOURCE POSITION			LOCAL	AS NEEDED	L-160
POLLUTANT CONCEN			LOCAL	AS NEEDED	L-160
POLLUTANT TYPE			LOCAL	AS NEEDED	L-160
TOPOGRAPHIC FEATURES			LOCAL	AS NEEDED	L-160
VERT WIND PROF	MN		LOCAL	AS NEEDED	L-160
WIND SPEED			LOCAL	AS NEEDED	L-160

DISCIPLINE TITLE - AIR QUALITY
 APPLICATION TITLE - POLLUTION MODELING
 SUBAPPLICATION TITLE - DISPERSION MODELS
 TREE - 6 1.2 1.2

PARAMETER	REFER.	DES. ACCUR.	BASED ACCUR	ACCUR. UNITS	LOW HORIZ RESOL	HIGH HORIZ RESOL	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL.	VERT RESOL UNITS	FRESHNESS
AEROSOL PHYSICAL SIZE	L-107				50	50.	KM				FEW HR
ATMOSPHERIC MIXING RATE	L-107										
ATMOSPHERIC TRANSMITTANCE	L-107										
DEBRIS TRACKING	L-107										
EMISSIONS	L-107				50.	50.	KM				FEW HR
NITRATES	L-107	2	20.	%	50	50.	KM	.5	5.	KM	
ORGANICS	L-107										
POLLUTANT CONCEN	L-107		50	%							
SULFATES	L-107	.01	10.	PPB	50.	50	KM	1	10.	KM	FEW HR
TERRAIN TYPE	L-107										
TOPOGRAPHIC FEATURES	L-107	1.	3	CM	05	1.	KM	1.	3.	CM	

DISCIPLINE TITLE - AIR QUALITY
 APPLICATION TITLE - POLLUTION MODELING
 SUBAPPLICATION TITLE - DISPERSION MODELS
 TREE - 6.1.2.1 2

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
AEROSOL PHYSICAL SIZE	YR		LOCAL		
ATMOSPHERIC MIXING RATE	YR	1 DA TO 1 YR	LOCAL	DIFFERENT TIME PERIODS	
ATMOSPHERIC TRANSMITTANCE	YR	1 DA TO 1 YR	LOCAL	DIFFERENT TIME PERIODS	
DEBRIS TRACKING	YR		LOCAL		
EMISSIVITY	DA	1 DAY TO 1 YR	LOCAL		
NITRATES	YR		LOCAL		L-160
ORGANICS	YR		LOCAL		
POLLUTANT CONCEN	YR	1 DA TO 1 YR	GLOBAL	DIFFERENT TIME PERIODS	
SULFATES	YR		LOCAL		L-160
TERRAIN TYPE	YR		LOCAL		
TOPOGRAPHIC FEATURES	YR		LOCAL		L-160

DISCIPLINE TITLE - AIR QUALITY
 APPLICATION TITLE - ATMOSPHERIC CHEMISTRY ASSESSMENT
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 6.1 3 1

PARAMETER	REFER	DES ACCUR.	BASED ACCUR.	ACCUR. UNITS	LOW HORIZ RESOL	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL	HIGH VERT RESOL	VERT RESOL UNITS	FRESHNESS
AEROSOLS	L-1	5	5	%	50	50.	KM	1	1.	KM	
AEROSOLS	L-171	20.	25.	%	50	50	KM	1	1.	KM	
CH4	L-1	2		PPM	10	10	KM	1	1.	KM	
CH4	L-171	1.	1.	PPB	50	50	KM	1	1	KM	1 DA
CO	L-1	10.		PPB	50.	50	KM	1.	1	KM	
CO	L-171	10.	10.	PPB	50	50	KM	1	1	KM	1
HNO3	L-1	1.		PPB	50	50.	KM	1	1.	KM	
H2O	L-1	5		%	50	50	KM	1	1.	KM	
NH3	L-1	10.		PPB	10	10	KM	1.	1	KM	
NH3	L-171	20.	20.	%	100	100.	KM	1	1	KM	
NO2	L-1	10.		PPB	10	10.	KM	1	1	KM	
OZONE	L-1	1.		PPB	50	50.	KM	1	3	KM	
OZONE	L-171	1	10.	PPB	50	500.	KM	1.	10.	KM	
SO2	L-1	5		PPB	500	500.	KM	1	1.	KM	
SO2	L-171	5	10.	PPB	100	100.	KM	13	10.	KM	

DISCIPLINE TITLE - AIR QUALITY
 APPLICATION TITLE - ATMOSPHERIC CHEMISTRY ASSESSMENT
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 6.1.3.1

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
AEROSOLS	DA	HR-DA	GLOBAL OR LOCAL	AS NEEDED	
AEROSOLS		HR-DA	GLOBAL	AS NEEDED	
CH4	DA	HR-DA	GLOBAL OR LOCAL	AS NEEDED	
CH4	DA	HR-DA	GLOBAL OR LOCAL	AS NEEDED	
CO	DA	HR	GLOBAL OR LOCAL	AS NEEDED	
CO	DA	HR-DA	GLOBAL OR LOCAL	AS NEEDED	
HN03	DA	HR-DA	GLOBAL OR LOCAL	AS NEEDED	
H2O	DA	HR-DA	GLOBAL OR LOCAL	AS NEEDED	
NH3	DA	HR-DA	GLOBAL OR LOCAL	AS NEEDED	
NH3		HR-DA	GLOBAL OR LOCAL	AS NEEDED	
NO2	DA	HR-DA	GLOBAL OR LOCAL	AS NEEDED	
OZONE	DA	HR-DA	GLOBAL OR LOCAL	AS NEEDED	
OZONE		HR-DA	GLOBAL OR LOCAL	AS NEEDED	
SO2	DA	HR-DA	GLOBAL OR LOCAL	AS NEEDED	
SO2		HR-DA	GLOBAL OR LOCAL	AS NEEDED	

DISCIPLINE TITLE - AIR QUALITY
 APPLICATION TITLE - THERMAL POLLUTANTS/TRACKING
 SUBAPPLICATION TITLE - EFFECT OF HEAT FROM URBAN AREAS/INDUSTRY
 TREE - 6.2 1.1.1

PARAMETER	REFER.	DES ACCUR.	BASD ACCUR	ACCUR UNITS	LOW HORIZ RESOL	HIGH HORIZ RESOL	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL.	VERT RESOL UNITS	FRESHNESS
AIR INSTABILITY	L-0				100	100 0	M				HR
AIR QUALITY INDEX	L-0										HR
CLOUD COVER	L-0	1.	20.		100 0	500 0	M				HR
LAND COVER TYPE	L-0				100 00	100 00	M				HR
RELATIVE HUMIDITY	L-0	1	30	%	1	5	KM	03	5.	KM	HR
SOIL PERMEABILITY	L-52				100 0		M				HR
SURFACE ROUGHNESS	L-52	2.	100.	M	20. 00	100. 0	M	2.	100	M	HR
SURFACE TEMP	L-0	1	1.	DEG C	100. 0	100 0	M				HR
TOPOGRAPHIC FEATURES	L-0	1	3	CM	100 00	100 00	M	1	3	CM	HR
VERT WIND PROF	L-52	1	3	MB	1	5.	KM	. 5	5	KM	HR
VISIBILITY	L-0	10	4	LEVELS	. 1	1.	KM				HR

DISCIPLINE TITLE - AIR QUALITY
 APPLICATION TITLE - THERMAL POLLUTANTS/TRACKING
 SUBAPPLICATION TITLE - EFFECT OF HEAT FROM URBAN AREAS/INDUSTRY
 TREE - 6.2 1.1.1

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
AIR INSTABILITY			LOCAL		
AIR QUALITY INDEX	HR		LOCAL		
CLOUD COVER	HR		LOCAL		
LAND COVER TYPE	YR		LOCAL		
RELATIVE HUMIDITY	HR		LOCAL		
SOIL PERMEABILITY			LOCAL		L-160
SURFACE ROUGHNESS	MON		LOCAL		L-160
SURFACE TEMP	HR		LOCAL		L-160
TOPOGRAPHIC FEATURES	YR		LOCAL		L-160
VERT WIND PROF	HR		LOCAL		L-160
VISIBILITY	HR		LOCAL		L-160

DISCIPLINE TITLE - AIR QUALITY
 APPLICATION TITLE - VOLCANO/FOREST FIRE MONITORING
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 6 2 1 4

PARAMETER	REFER	DES ACCUR	BASD ACCUR	ACCUR. UNITS	LOW HORIZ RESOL.	HIGH HORIZ RESOL	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL.	VERT RESOL UNITS	FRESHNESS
ATMOSPHERIC PARTICULATES	L-0										
CO	L-169	2	20	%	50 0	500	KM	1.	3.	KM	1-DA
CO2	L-169	2	20.	%	50 0	500.	KM	1	3	KM	1-DA
SULFUR COMPOUNDS	L-169	10	20	%	50. 0	500	KM	1.	3	KM	1 DA

DISCIPLINE TITLE - AIR QUALITY
 APPLICATION TITLE - VOLCANO/FOREST FIRE MONITORING
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 6.2 1.4

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
ATMOSPHERIC PARTICULATES					
CO	DA		LOCAL		L-O
CO2	DA		LOCAL		L-O
SULFUR COMPOUNDS	DA		LOCAL		L-O

DISCIPLINE TITLE - AIR QUALITY
 APPLICATION TITLE - ATMOS POLLUTANT TRANSPORT/DISPERSION ASSESSMENT
 SUBAPPLICATION TITLE - ATMOS POLLUTANT TRANSPORT/DISPERSION ASSESSMENT
 TREE - 6 2.2 1 1

PARAMETER	REFER	DES ACCUR	BASED ACCUR	ACCUR UNITS	LOW HORIZ RESOL.	HIGH HORIZ RESOL	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL	VERT RESOL UNITS	FRESHNESS
AEROSOLS	L-1	5		%	50	50	KM	1	1.	KM	
AIR INSTABILITY	L-31										
VERT VELOCITY	L-0										
VERT WIND PROF	L-0	1		MB	50	500	KM	1.	5.	KM	
WIND SPEED	L-1	.5		M/S							

DISCIPLINE TITLE - AIR QUALITY
 APPLICATION TITLE - ATMOS POLLUTANT TRANSPORT/DISPERSION ASSESSMENT
 SUBAPPLICATION TITLE - ATMOS POLLUTANT TRANSPORT/DISPERSION ASSESSMENT
 TREE - 6.2 2 1 1

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
AEROSOLS	DA				
AIR INSTABILITY					
VERT VELOCITY					
VERT WIND PROF	3 HRS-DAYS				
WIND SPEED	4/DA				L-160

DISCIPLINE TITLE - AIR QUALITY
 APPLICATION TITLE - ATMOS POLLUTANT TRANSPORT/DISPERSION ASSESSMENT
 SUBAPPLICATION TITLE - AEROSOL DISPERSION
 TREE - 6 2.2 1 2

PARAMETER	REFER.	DES ACCUR	BASED ACCUR	ACCUR. UNITS	LOW HORIZ RESOL	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL	VERT RESOL UNITS	FRESHNESS
AEROSOLS	L-161	005	02	PPM	500	500.	KM	3	3.	KM	1-DA
ATMOSPHERIC TRANSMITTANCE	L-161	2.	4	%	500	500	KM				HR
NITROGEN	L-171		10	PPB	10	500.	KM	1	5	KM	1 DA
POLLUTANT CONCEN											
SULFUR	L-169	10	20	%	500	500.	KM	1.	3.	KM	1-DA
TOPOGRAPHIC FEATURES	L-167	1.	3	CM	50	50	M	1	3	CM	

DISCIPLINE TITLE - AIR QUALITY
APPLICATION TITLE - ATMOS POLLUTANT TRANSPORT/DISPERSION ASSESSMENT
SUBAPPLICATION TITLE - AEROSOL DISPERSION
TREE - 6 2.2.1 2

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
AEROSOLS	MON				
ATMOSPHERIC TRANSMITTANCE	MON				
NITROGEN	DA				
POLLUTANT CONCEN					
SULFUR	DA				
TOPOGRAPHIC FEATURES	1YR				

DISCIPLINE TITLE - AIR QUALITY
 APPLICATION TITLE - AIR QUALITY INDEX DETERMINATION
 SUBAPPLICATION TITLE - AIR QUALITY STAGNATION INDEX DETERMINATION
 TREE - 6.2.2.2

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
RELATIVE HUMIDITY	MN-DA		LOCAL		L-0, L-160
VERT TEMP PROF	MN-DA		LOCAL		L-0, L-160
VERT WIND PROF	MN-DA		LOCAL		L-0, L-160
VORTICITY					

DISCIPLINE TITLE - AIR QUALITY
APPLICATION TITLE - EFFECTIVENESS OF POLLUTION CONTROL
SUBAPPLICATION TITLE - NO TITLE
TREE - 6 2.3.1

[illegible]

DISCIPLINE TITLE - AIR QUALITY
 APPLICATION TITLE - EFFECTIVENESS OF POLLUTION CONTROL
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 6.2 3.1
 PARAMETER

FREQUENCY
 OF UPDATE

DURATION

AREAL
 COVERAGE

OBSERVATION
 TIME

COMMENTS

AEROSOL PHYSICAL SIZE
 AEROSOLS
 ANTHROPOGENIC POLLUTANTS
 ATMOSPHERIC PARTICULATES
 DEBRIS TRACKING
 NATURAL POLLUTANTS
 POLLUTANT CONCEN
 POLLUTANT TYPE

DISCIPLINE TITLE - AIR QUALITY
 APPLICATION TITLE - WATER VAPOR CONTAMINATION
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 6.3.1.1

PARAMETER	REFER	DES ACCUR.	BASD ACCUR	ACCUR UNITS	LOW HORIZ RESOL.	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL.	VERT RESOL UNITS	FRESHNESS
H2O	L-0	20.	50.	%	10.	50	KM	.5	3	KM	
VERT TEMP PROF	L-0	1	2.	DEG C	1	50.	KM	.03	5.	KM	

DISCIPLINE TITLE - AIR QUALITY
 APPLICATION TITLE - WATER VAPOR CONTAMINATION
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 6 3 1.1

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
H2O	DA		LOCAL		L-160
VERT TEMP PROF	DA		LOCAL		L-160

DISCIPLINE TITLE - AIR QUALITY
 APPLICATION TITLE - CO2 IMPACTS
 SUBAPPLICATION TITLE - CO2 IMPACTS ON ATMOSPHERE
 TREE - 6 3 1.2 1

PARAMETER	REFER.	DES ACCUR	BASD ACCUR.	ACCUR. UNITS	LOW HORIZ RESOL.	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL.	VERT RESOL UNITS	FRESHNESS
CLOUD COVER	L-51	1	20	%	5	500.	KM				
CLOUD THICKNESS	L-51	5	1000.	M	5	500.	KM	.5	1000.	KM	
CO2	L-51	2	20.	%	10	500.	KM	.5	3.	KM	
H2O	L-51	2	50	%	10	500.	KM	.5	3.	KM	
ICE/SNOW ALBEDO	L-51	2	3.	%	.1	500.	KM				
ICE/SNOW EXTENT	L-51	001	50.	SM							
INFRARED RADIATION	L-51										
LAPSE RATE	L-51										
NET RADIATION	L-51	2	25	W/CM2	100	1000.	KM				
RELATIVE HUMIDITY	L-51	1	30.	%	5.	500.	KM	03	5.	KM	
SOLAR CONSTANT	L-51	1.5	5.	W/CM2							
VERT TEMP PROF	L-51	.1	2.	DEG C	1.	500.	KM	.03	5.	5	

DISCIPLINE TITLE - AIR QUALITY
 APPLICATION TITLE - CO2 IMPACTS
 SUBAPPLICATION TITLE - CO2 IMPACTS ON ATMOSPHERE
 TREE - 6 3 1 2.1

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
CLOUD COVER	MN-DA		GLOBAL OR LOCAL	ALL SEASONS	L-160
CLOUD THICKNESS	2/DA		GLOBAL OR LOCAL	ALL SEASONS	L-160
CO2	DA		GLOBAL OR LOCAL	ALL SEASONS	L-160
H2O	DA		GLOBAL OR LOCAL	ALL SEASONS	L-160
ICE/SNOW ALBEDO	DA-MON		GLOBAL OR LOCAL	ALL SEASONS	L-160
ICE/SNOW EXTENT	3 HR-YR		GLOBAL OR LOCAL	ALL SEASONS	L-160
INFRARED RADIATION			GLOBAL OR LOCAL	ALL SEASONS	L-160
LAPSE RATE					
NET RADIATION	DA-MON		GLOBAL OR LOCAL	ALL SEASONS	L-160
RELATIVE HUMIDITY	MN-DA		GLOBAL OR LOCAL	ALL SEASONS	L-160
SOLAR CONSTANT	DA		GLOBAL OR LOCAL	ALL SEASONS	L-160
VERT TEMP PROF	MN-DA		GLOBAL OR LOCAL	ALL SEASONS	L-160

```
DISCIPLINE TITLE - AIR QUALITY
APPLICATION TITLE - CO2 IMPACTS
SUBAPPLICATION TITLE - CO2 IMPACT ON OCEAN
TREE - 6 3 1 2.2
```

[illegible]

DISCIPLINE TITLE - AIR QUALITY
APPLICATION TITLE - CO2 IMPACTS
SUBAPPLICATION TITLE - CO2 IMPACT ON OCEAN
TREE - 6 3 1.2.2
PARAMETER

FREQUENCY
OF UPDATE

DURATION

AREAL
COVERAGE

OBSERVATION
TIME

COMMENTS

CO2
EQ-TO-POLE TEMP GRAD
OCEAN MERIDIONAL HEAT FLUX
OCEAN MIXING LAYER
THERMOCLINE DEPTH

DA

GLOBAL OR LOCAL

ALL SEASONS

L-160

```
DISCIPLINE TITLE - AIR QUALITY
APPLICATION TITLE - CO2 IMPACTS
SUBAPPLICATION TITLE - CO2 WARMING EFFECT ASSESSMENT
TREE - 6.3 1.2.3
```

[illegible]

DISCIPLINE TITLE - AIR QUALITY
APPLICATION TITLE - CO2 IMPACTS
SUBAPPLICATION TITLE - CO2 WARMING EFFECT ASSESSMENT
TREE - 6 3. 1. 2. 3

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
AIR TEMP					
AIR TEMP					
CO2					
CO2					
CO2					
NET RADIATION					
NET RADIATION					
OCEAN SURFACE ROUGHNESS					
OCEANIC MERIDIONAL HEAT FLUX					

15 DAYS TRANSITORY
RESOLUTION

```
DISCIPLINE TITLE - AIR QUALITY
APPLICATION TITLE - OZONE LEVEL DETERMINATION
SUBAPPLICATION TITLE - OZONE LEVEL DETERMINATION
TREE - 6.3.1.3.1
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[illegible]

DISCIPLINE TITLE - AIR QUALITY
APPLICATION TITLE - OZONE LEVEL DETERMINATION
SUBAPPLICATION TITLE - OZONE LEVEL DETERMINATION
TREE - 6.3.1.3.1

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
ATMOSPHERIC MIXING RATE	DA	2 MON	GLOBAL OR LOCAL		
NITROGEN	DA		GLOBAL OR LOCAL		L-160
OZONE	DA	DA	GLOBAL OR LOCAL		L-160
RELATIVE HUMIDITY	MN-DA		GLOBAL OR LOCAL		L-160
SULFUR COMPOUNDS	DA		GLOBAL OR LOCAL		L-160
TRI-ATOMIC GASES			GLOBAL OR LOCAL		

DISCIPLINE TITLE - AIR QUALITY
 APPLICATION TITLE - OZONE LEVEL DETERMINATION
 SUBAPPLICATION TITLE - OZONE LEVEL CHANGES
 TREE - 6 3 1.3 2
 PARAMETER

	REFER.	DES. ACCUR	BASED ACCUR	ACCUR UNITS	LOW HORIZ RESOL.	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL	VERT RESOL UNITS	FRESHNESS
OZONE DISTRIB	L-12	5	.5	PPM	100	500.	KM	2.	2.	KM	
OZONE PROF	L-12	.5	1	PPM	100.	100.	KM	2.	2.0	KM	
TOTAL OZONE	L-12	1.	5.	%	100.	500	KM				

DISCIPLINE TITLE - AIR QUALITY
 APPLICATION TITLE - OZONE LEVEL DETERMINATION
 SUBAPPLICATION TITLE - OZONE LEVEL CHANGES
 TREE - 6 3.1.3 2

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
OZONE DISTRIB			GLOBAL OR LOCAL		1 DA TRANSITORY RESOLUTION
OZONE PROF			GLOBAL OR LOCAL		
TOTAL OZONE			GLOBAL OR LOCAL		1 DA TRANSITION RESOLUTION

DISCIPLINE TITLE - AIR QUALITY
 APPLICATION TITLE - OZONE LEVEL DETERMINATION
 SUBAPPLICATION TITLE - UPPER ATMOS RESEARCH
 TREE - 6.3 1.3.3

PARAMETER	REFER	DES ACCUR.	BASED ACCUR.	ACCUR. UNITS	LOW HORIZ RESOL	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL	VERT RESOL UNITS	FRESHNESS
OZONE	L-169	2	20	%	200.	500.	KM	1.	5	KM	1-DA
SULFUR	L-169	10.	20.	%	500.	500.	KM	1.	3.	KM	1-DA
VERT HUMIDITY PROF	L-169		30.	%	500.	500.	KM	2	4	KM	

DISCIPLINE TITLE - AIR QUALITY
APPLICATION TITLE - OZONE LEVEL DETERMINATION
SUBAPPLICATION TITLE - UPPER ATMOS RESEARCH
TREE - 6.3 1.3.3
PARAMETER

FREQUENCY
OF UPDATE

DURATION

AREAL
COVERAGE

OBSERVATION
TIME

COMMENTS

OZONE
SULFUR
VERT HUMIDITY PROF

DAILY
DA

DISCIPLINE TITLE - AIR QUALITY
 APPLICATION TITLE - TROPOSPHERIC AEROSOLS
 SUBAPPLICATION TITLE - IMPACT ON GLOBAL TROPOSPHERE
 TREE - 6.3.2.1.2

PARAMETER	REFER.	DES. ACCUR.	BASED ACCUR.	ACCUR UNITS	LOW HORIZ RESOL.	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL.	VERT RESOL UNITS	FRESHNESS
AEROSOLS	L-12	20.	25.	%	50	50.	KM	1.	1.	KM	
AIR TEMP	L-0										
CLOUD COVER	L-12	1	10.	%	500.	1000	KM	3	3.	KM	
CLOUD THICKNESS	L-12	.5	5	KM	100.	500	KM	1	4.	KM	
CLOUD TOP TEMP	L-0	1	2.	DEG C	1	500.	KM				
CLOUD/ATMOS ALBEDO	L-12	.2	5	%	10.	500.	KM				
H2O	L-0	.5		PPM	50.	500.	KM	1.	2.	KM	
LONGWAVE RADIATION	L-12										
NET RADIATION	L-12	2	25.	W/CM2	100.	1000	KM				
OCEAN SURFACE WIND DIR	L-0	2.	10.	DEG	50.	100.	KM				
OCEAN SURFACE WIND DIR	L-0				50.	100.	KM				
OCEAN SURFACE WIND SPEED	L-0	.5	1.	M/S	50.	100.	KM				
VERT HUMIDITY PROF	L-0	30.	30.	%	100.	100.	KM	1.	2.	KM	
VERT PRESSURE PROF	L-0	3	3	%	100.	100.	KM	1.	2.	KM	
VERT TEMP PROF	L-0	1	1.	DEG C	100.	100.	KM	2	2.	KM	

DISCIPLINE TITLE - AIR QUALITY
 APPLICATION TITLE - TROPOSPHERIC AEROSOLS
 SUBAPPLICATION TITLE - IMPACT ON GLOBAL TROPOSPHERE
 TREE - 6 3 2.1.2

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
AEROSOLS	DA		GLOBAL		L-171
AIR TEMP					
CLOUD COVER	3 DA		GLOBAL		L-171
CLOUD THICKNESS			GLOBAL		L-171
CLOUD TOP TEMP	3 HR-DA		GLOBAL		L-160
CLOUD/ATMOS ALBEDO	HR-MON		GLOBAL		L-160
H2O	DA		GLOBAL		L-171
LONGWAVE RADIATION					
NET RADIATION	DA-MON		GLOBAL		L-160
OCEAN SURFACE WIND DIR	4/DA		GLOBAL		L-162
OCEAN SURFACE WIND DIR	40 DA		GLOBAL		L-162
OCEAN SURFACE WIND SPEED	40 DA		GLOBAL		L-162
VERT HUMIDITY PROF	4/DA		GLOBAL		L-171
VERT PRESSURE PROF			GLOBAL		L-171
VERT TEMP PROF	DA		GLOBAL		L-171

DISCIPLINE TITLE - AIR QUALITY
 APPLICATION TITLE - EFFECTS OF AIR POLLUTION ON AGRICULTURE
 SUBAPPLICATION TITLE - EFFECTS OF AIR POLLUTION ON AGRICULTURE
 TREE - 6. 4. 1. 1. 1
 PARAMETER

REFER.	DES ACCUR.	BASED ACCUR	ACCUR UNITS	LOW HORIZ RESOL.	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL.	VERT RESOL UNITS	FRESHNESS
L-32	2.	20.	%	50	500	KM	1.	3.	KM	
L-32	2	20.	%	50.	500.	KM	1.	3.	KM	
L-32	10	10	%	20.	1000	KM	1.	5.	KM	
L-32	2.	20	%	10.	500.	KM	1.	5.	KM	
L-32	2.	20.	%	10	500.	KM	.5	5.	KM	
L-32	2.	20.	%	50.	500.	KM	.5	10.	KM	
L-32	01	10.	PPB	50.	500.	KM	1.	10.	KM	

CFXCLY
 CL
 HCL
 HG
 HYDROCARBONS
 NH3
 NOX
 OZONE
 PHYTOPLANKTON LEVEL
 SO2

DISCIPLINE TITLE - AIR QUALITY
 APPLICATION TITLE - EFFECTS OF AIR POLLUTION ON AGRICULTURE
 SUBAPPLICATION TITLE - EFFECTS OF AIR POLLUTION ON AGRICULTURE
 TREE - 6.4.1.1 1

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
CFXCLY	DA				L-160
CL	DA				L-160
HCL	DA				L-160
HG					L-160
HYDROCARBONS					
NH3	DA				L-160
NOX	DA				L-160
OZONE	DA		AGRICULTURAL AREAS	GROWING SEASON	L-160
PHYTOPLANKTON LEVEL					
SQ2	DA		AGRICULTURAL AREA	GROWING SEASON	L-160

DISCIPLINE TITLE - AIR QUALITY
 APPLICATION TITLE - EFFECTS OF AIR POLLUTION ON AGRICULTURE
 SUBAPPLICATION TITLE - IMPACT ON PLANT
 TREE - 6.4.1.1.2

PARAMETER	REFER.	DES. ACCUR	BASED ACCUR.	ACCUR. UNITS	LOW HORIZ RESOL.	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL.	VERT RESOL UNITS	FRESHNESS
AEROSOLS	L-32	5.	25.	%	10	500	KM	.5	5.	KM	
CFMS CONCEN	L-32	2	20.	%	50	500.	KM	1.	3.	KM	
CL	L-32										
CO2	L-0	2.	20.	%	10	500.	KM	.5	3.	KM	
HG	L-32	1	1	PPB							
H2O	L-0	2.	50.	%	10	500.	KM	.5	3.	KM	
NH3	L-32	2.	20.	%	10	500.	KM	1	5.	KM	
NOX	L-32	2.	20.	%	10.	500.	KM	.5	5.	KM	
OZONE	L-32	2.	20	%	50	500.	KM	.5	10	KM	
PLANT DENSITY	L-0				.03	1	KM				
PLANT TYPE	L-0	2	5	%	.01	500.	KM				
SO2	L-32	01	10.	PPB	50.	500	KM	1.	10.	KM	

DISCIPLINE TITLE - AIR QUALITY
 APPLICATION TITLE - EFFECTS OF AIR POLLUTION ON AGRICULTURE
 SUBAPPLICATION TITLE - IMPACT ON PLANT
 TREE - 6 4.1.1 2

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
AEROSOLS	DA		PLANT AREA		L-160
CFMS CONCEN	DA		PLANT AREA		L-160
CL			PLANT AREA		L-160
CO2	DA		PLANT AREA		L-160
HG	DA		PLANT AREA		L-160
H2O	DA		PLANT AREA		L-160
NH3	DA		PLANT AREA		L-160
NOX	DA		PLANT AREA		160
OZONE	DA		PLANT AREA		L-160
PLANT DENSITY	WK-YR		PLANT AREA EXTENT		L-160
PLANT TYPE	WK-YR		PLANT AREA		L-160
SO2	DA		PLANT AREA		L-160

DISCIPLINE TITLE - AIR QUALITY
APPLICATION TITLE - HUMAN HEALTH HAZARDS
SUBAPPLICATION TITLE - ND TITLE
TREE - 6 4 2 1

[illegible]

DISCIPLINE TITLE - AIR QUALITY
 APPLICATION TITLE - HUMAN HEALTH HAZARDS
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 6.4.2.1

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
AEROSOLS	DA		LOCAL		L-0, L-160
AIR QUALITY INDEX			LOCAL		
CO	DA		LOCAL		L-0, L-160
CO2	DA		LOCAL		L-0, L-160
HYDROCARBONS			LOCAL		
H2S	DA		LOCAL		L-0, L-160
METAL CONCEN	DA		LOCAL		L-160
NO2	DA		LOCAL		L-0, L-160
OZONE	DA		LOCAL		L-0, L-160
PARTICULATES			LOCAL		
POLLUTANT CONCEN			LOCAL		
SO2	DA		LOCAL		L-0, L-160
VERT WIND CONVECT DUCTS LOC			LOCAL		
VERT WIND CONVECT DUCTS SIZE			LOCAL		

DISCIPLINE TITLE - AIR QUALITY
 APPLICATION TITLE - IMPACT ON TRAFFIC SAFETY
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 6. 4. 2 2

PARAMETER	REFER.	DES ACCUR.	BASED ACCUR.	ACCUR. UNITS	LOW HORIZ RESOL.	HIGH HORIZ RESOL	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL	VERT RESOL UNITS	FRESHNESS
ATMOSPHERIC DUST CONTENT	L-30										
AUTOMOBILE DENSITY	L-30										
CO	L-30	2.	20.	%	10	10	KM	5	3.	KM	
HYDROCARBONS	L-0										
LAND COVER TYPE	L-30										
NOX	L-30	2	20.	%	10.	10	KM	5	3	KM	
PARTICULATES	L-0										
POLLUTANT CONCEN	L-0										
SULFUR OXIDES	L-0	.01	10	PPB	50	50	KM	1	3.	KM	
VERT WIND PROF	L-30	1.	3.	MB	5	5.	KM	.5	3.	KM	
VISIBILITY	L-0	10	4	LEVELS	1.	50.	KM				

DISCIPLINE TITLE - AIR QUALITY
 APPLICATION TITLE - IMPACT ON TRAFFIC SAFETY
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 6.4 2.2

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
ATMOSPHERIC DUST CONTENT					
AUTOMOBILE DENSITY					
CO	HR-DA		LOCAL		L-160
HYDROCARBONS			LOCAL		
LAND COVER TYPE					
NOX	HR-DA		LOCAL		L-160
PARTICULATES					
POLLUTANT CONCEN					
SULFUR OXIDES	HR-DA		LOCAL		L-160
VERT WIND PROF	MN-DA		LOCAL		L-160
VISIBILITY	HR-2/DA		LOCAL		L-160

DISCIPLINE TITLE - AIR QUALITY
 APPLICATION TITLE - IMPACT ON CLIMATE
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 6 4.3.3

PARAMETER	REFER.	DES ACCUR.	BASED ACCUR	ACCUR. UNITS	LOW HORIZ RESOL.	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL.	VERT RESOL UNITS	FRESHNESS
CH2CL2	L-33										
CH4	L-33										
CO	L-33	20	20	%	10	500	KM	5	5.	KM	
CO2	L-33	20	20	%	10	500	KM	5	3.	KM	
C2H2	L-33	20	20	%	10	500.	KM	5	3.	KM	
NH03	L-33	20	20	%	10.	500.	KM	5	5.	KM	
NH3	L-33	20.	20.	%	10.	500.	KM	1.	5.	KM	
OZONE	L-33	20	20	%	50.	500.	KM	1	5.	KM	
SO2	L-33	01	10	PPB	50	500	KM	.5	10.	KM	
SURFACE TEMP	L-30	.1	1.	DEG C	1	200.	KM	1	10.	KM	

DISCIPLINE TITLE - AIR QUALITY
 APPLICATION TITLE - IMPACT ON CLIMATE
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 6 4.3.3

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
CH2CL2	DA		LOCAL OR GLOBAL		L-160
CH4	DA		LOCAL OR GLOBAL		L-160
CO	DA		LOCAL OR GLOBAL		L-160
CO2	DA		LOCAL OR GLOBAL		L-160
C2H2	DA		LOCAL OR GLOBAL		L-160
NH03	DA		LOCAL OR GLOBAL		L-160
NH3	DA		LOCAL OR GLOBAL		L-160
OZONE	DA		LOCAL OR GLOBAL		L-160
SO2	DA		LOCAL OR GLOBAL		L-160
SURFACE TEMP	DA		LOCAL OR GLOBAL		L-160

Ocean Processes Applications
Data Sheets

DISCIPLINE TITLE - OCEAN PROCESSES
APPLICATION TITLE - MARINE GEODESY AND SURFACE TOPOGRAPHY
SUBAPPLICATION TITLE - OCEAN SURFACE TOPOGRAPGY

[illegible]

DISCIPLINE TITLE - OCEAN PROCESSES
APPLICATION TITLE - MARINE GEODESY AND SURFACE TOPOGRAPHY
SUBAPPLICATION TITLE - OCEAN SURFACE TOPOGRAPHY
TREE - 7.1.1.1.2

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
OCEAN SURFACE WIND SPEED	6 HR	YR			
OCEAN WAVE HEIGHT					

DISCIPLINE TITLE - OCEAN PROCESSES
APPLICATION TITLE - SHALLOW WATER BATHYMETRY
SUBAPPLICATION TITLE - NO TITLE
TREE - 7 1.1.2

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
OCEAN SURFACE PRESSURE	12 HR				
OCEAN SURFACE PRESSURE	12 HR				
OCEAN SURFACE TEMP					
VERT OCEAN TEMP PROF					

DISCIPLINE TITLE - OCEAN PROCESSES
 APPLICATION TITLE - OCEAN CURRENT STUDIES
 SUBAPPLICATION TITLE - INTERNATIONAL SOUTHERN OCEAN STUDIES
 TREE - 7.1.1 3.1

PARAMETER	REFER.	DES ACCUR.	BASED ACCUR.	ACCUR UNITS	LOW HORIZ RESOL.	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL.	VERT RESOL UNITS	FRESHNESS
ICE EXTENT	L-155	1.	5	KM	1	5	KM				
OCEAN SURFACE WIND DIR	L-155				5 0	25 0	KM				
OCEAN SURFACE WIND SPEED	L-155	1	2	M/S	5.0	25.0	KM				
SEA SURFACE TEMP	L-155	2.0	0.5	DEG	5	25	KM				
TOPOGRAPHIC FEATURES	L-155		10.	CM	0.0	10 0	KM				

DISCIPLINE TITLE - OCEAN PROCESSES
 APPLICATION TITLE - OCEAN CURRENT STUDIES
 SUBAPPLICATION TITLE - INTERNATIONAL SOUTHERN OCEAN STUDIES
 TREE - 7.1.1.3.1

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
ICE EXTENT	7 DA		SOUTHERN HEMISPHERE		
OCEAN SURFACE WIND DIR	2-8 DA		ANTARCTIC		
OCEAN SURFACE WIND SPEED	2-8 DA		ANTARCTIC		
SEA SURFACE TEMP	1-7 DA		ANTARCTIC		
TOPOGRAPHIC FEATURES	7-28 DA		50-65 DEG LAT		

DISCIPLINE TITLE - OCEAN PROCESSES
 APPLICATION TITLE - OCEAN CURRENT STUDIES
 SUBAPPLICATION TITLE - POLYGON MID-OCEAN DYNAMICS EXP
 TREE - 7.1.1.3.2

PARAMETER	REFER.	DES ACCUR.	BASED ACCUR	ACCUR. UNITS	LOW HORIZ RESOL.	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL.	VERT RESOL UNITS	FRESHNESS
CURRENT BOUNDARY	L-157	10		CM	001	1 0	KM				
EDDY LOCATION	L-155	50.		M	001	1 0	KM				
EDDY TOPOGRAPHY	L-155				.001	1 0	KM				
OCEAN SURFACE WIND DIR	L-155										
OCEAN SURFACE WIND SPEED	L-155	1	2.	M/S	10 0	50. 0	KM				
SEA SURFACE TEMP	L-155	0. 5	2.	DEG	25	100 0	KM				
TOPOGRAPHIC FEATURES	L-155		10.	CM	0. 0	10 0	KM				

DISCIPLINE TITLE - OCEAN PROCESSES
 APPLICATION TITLE - OCEAN CURRENT STUDIES
 SUBAPPLICATION TITLE - POLYGON MID-OCEAN DYNAMICS EXP
 TREE - 7 1 1.3.2

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
CURRENT BOUNDARY			ATLANTIC		GULF STREAM BOUNDARY
EDDY LOCATION	0.5-7 DA		ATLANTIC		
EDDY TOPOGRAPHY	0.5-7 DA		ATLANTIC		
OCEAN SURFACE WIND DIR	2-8 DA		NORTH ATLANTIC		
OCEAN SURFACE WIND SPEED	1-8 DA		NORTH ATLANTIC		
SEA SURFACE TEMP	1-7 DA		ATLANTIC		
TOPOGRAPHIC FEATURES	7-28 DA				

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* DISCIPLINE TITLE - OCEAN PROCESSES
  APPLICATION TITLE - OCEAN DYNAMICS
SUBAPPLICATION TITLE - GLOBAL OCEAN CIRCULATION
TREE - 7 1.1.4

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[illegible]

DISCIPLINE TITLE - OCEAN PROCESSES
 APPLICATION TITLE - OCEAN DYNAMICS
 SUBAPPLICATION TITLE - GLOBAL OCEAN CIRCULATION
 TREE - 7 1 1.4

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
CURRENT LOCATION	<6 HR	MO-YR	100 KM	ALL YR	
CURRENT VELOCITY	<6 HR	MO-YR	100 KM	ALL YR	
EDDY LOCATION	<6 HR	MO-YR	100 KM	ALL YR	
EDDY TOPOGRAPHY	<6 HR	MO-YR	100 KM	ALL YR	
SEA SURFACE TEMP	<6 HR	MO-YR			
UPWELLING EXTENT	<6 HR	MON-YR	100 KM	ALL YR	
UPWELLING LOCATION	<6 HR	MON-YR	100 KM	ALL YR	
VERT TEMP PROF	<6 HR	MO-YR			

5 CM/20 DEG
 1/100 KM
 1/10
 1 M
 1-100 KM
 1/KM

DISCIPLINE TITLE - OCEAN PROCESSES
 APPLICATION TITLE - OUTER CONTINENTAL ENERGY ASSESSMENT
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 7 1.1 6 1

PARAMETER	REFER	DES ACCUR.	BASD ACCUR	ACCUR UNITS	LOW HORIZ RESOL	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL	HIGH VERT RESOL.	VERT RESOL UNITS	FRESHNESS
ICE SURFACE FEATURES	L-155	25 0		M	25 0	25 0	KM				
ICE TYPE	L-155										
OCEAN SURFACE WIND DIR	L-155	10 0	20 0	DEG							
OCEAN SURFACE WIND SPEED	L-155	1 0	2. 0	M/S	10 0	50 0	KM				
OCEAN WAVE DIR	L-155	15 0			5 0		CM				
OCEAN WAVE HEIGHT	L-155	1 0	0 5		1. 0	12 0	KM				
OCEAN WAVE LENGTH	L-155	10. 0		%	50. 0		M				
PETROLEUM POLLUTANT EXTENT	L-155										
SEA ICE EXTENT	L-155	1. 0	25 0	OHM	10 0	15 0	KM				

DISCIPLINE TITLE - OCEAN PROCESSES
APPLICATION TITLE - OUTER CONTINENTAL ENERGY ASSESSMENT
SUBAPPLICATION TITLE - NO TITLE
TREE - 7.1.1.6.1

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
ICE SURFACE FEATURES					
ICE TYPE					
OCEAN SURFACE WIND DIR	2-8 DA				
OCEAN SURFACE WIND SPEED	2-7 DA				
OCEAN WAVE DIR					
OCEAN WAVE HEIGHT					
OCEAN WAVE LENGTH					
PETROLEUM POLLUTANT EXTENT					
SEA ICE EXTENT					

DISCIPLINE TITLE - OCEAN PROCESSES
 APPLICATION TITLE - OCEAN INTERACTIONS
 SUBAPPLICATION TITLE - WIND/WAVE INTERACTION
 TREE - 7 1 2.1

PARAMETER	REFER	DES ACCUR	BASD ACCUR	ACCUR UNITS	LOW HORIZ RESOL	HIGH HORIZ RESOL	HORIZ RES UNITS	LOW VERT RESOL	HIGH VERT RESOL	VERT RESOL UNITS	FRESHNESS
OCEAN WAVE DIR	L-1										< 24 HR
OCEAN WAVE HEIGHT	L-1	10.		%	0.1	50.	KM				< 24 HR
OCEAN WAVE LENGTH	L-1	10.		%	.002	100	KM				< 24 HR
VERT WIND SHEAR	L-1				.1	50	KM				< 24 HR

DISCIPLINE TITLE - OCEAN PROCESSES
APPLICATION TITLE - OCEAN INTERACTIONS
SUBAPPLICATION TITLE - WIND/WAVE INTERACTION
TREE - 7.1.2.1

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
OCEAN WAVE DIR	2-6 HR		5 DEG/20 DEG	ALL YR	
OCEAN WAVE HEIGHT	2-6 HR		0.5 M	ALL YR	
OCEAN WAVE LENGTH	2-6 HR		2 M	ALL YR	
VERT WIND SHEAR	2-6 HR			ALL YR	

DISCIPLINE TITLE - OCEAN PROCESSES
 APPLICATION TITLE - OCEAN INTERACTIONS
 SUBAPPLICATION TITLE - OCEAN COMPONENT OF CLIMATE SYSTEM
 TREE - 7.1.2.3

PARAMETER	REFER.	DES ACCUR.	BASD ACCUR	ACCUR UNITS	LOW HORIZ RESOL	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL.	VERT RESOL UNITS	FRESHNESS
DRIFT CURRENT	L-0										
EVAPORATION RATE	L-11	10	25.	%	500 0	500. 0	KM				DA
OCEAN SURFACE CURRENT AMP	L-0										
OCEAN SURFACE CURRENT DIR	L-0										
OCEAN SURFACE CURRENT LOC	L-0										
OCEAN SURFACE VELOCITY PROF	L-11	0 2	1 0	CM/SEC							DA
OCEAN TEMP PROF	L-11	0. 2	1. 0	DEG C							DA
SEA LEVEL HEIGHT	L-11	1	10	CM							DA
SEA LEVEL PRESSURE	L-0										
SEA SURFACE TEMP	L-11	0 2	1 0	DEG	500 0	500 0	KM				DA
SENSIBLE HEAT FLUX	L-11	10	25	W/M2	500 0	500 0	KM				DA
THERMOCLINE DEPTH	L-0										
UPPER OCEAN HEAT STORAGE	L-11	1	5.	K CAL*	500 0	500 0	KM				DA
WIND STRESS	L-11	0. 1	0 3	DY/CM2	500 0	500 0	KM				DA

DISCIPLINE TITLE - OCEAN PROCESSES
 APPLICATION TITLE - OCEAN INTERACTIONS
 SUBAPPLICATION TITLE - OCEAN COMPONENT OF CLIMATE SYSTEM
 TREE - 7.1.2.3

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
DRIFT CURRENT					
EVAPORATION RATE	1 MON	WK-MON	GLOBAL OCEAN AREA	ALL SEASONS	
OCEAN SURFACE CURRENT AMP					
OCEAN SURFACE CURRENT DIR					
OCEAN SURFACE CURRENT LOC					
OCEAN SURFACE VELOCITY PROF	1 YR	WK-MON	GLOBAL OCEAN AREA	ALL SEASONS	HORZ RES-VARIABLE
OCEAN TEMP PROF	1 MON	WK-MON	GLOBAL OCEAN AREA	ALL SEASONS	HORZ RES-VARIABLE
SEA LEVEL HEIGHT	1 WK	WK-MON	GLOBAL OCEAN AREA	ALL SEASONS	HORZ RES-VARIABLE
SEA LEVEL PRESSURE					
SEA SURFACE TEMP	1 MON	WK-MON	GLOABL OCEAN AREA	ALL SEASONS	
SENSIBLE HEAT FLUX	1 MON	WK-MON	GLOBAL OCEAN AREA	ALL SEASONS	
THERMOCLINE DEPTH					
UPPER OCEAN HEAT STORAGE	1 MON	WK-MON	GLOBAL OCEAN AREA	ALL SEASONS	
WIND STRESS	1 MON	WK-MON	GLOBAL OCEAN AREA	ALL SEASONS	

DISCIPLINE TITLE - OCEAN PROCESSES
 APPLICATION TITLE - COASTAL OCEAN CONDITION FORCASTING
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 7.2.1

PARAMETER	REFER.	DES ACCUR.	BASED ACCUR.	ACCUR. UNITS	LOW HORIZ RESOL.	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL	VERT RESOL UNITS	FRESHNESS
ASTRONOMICAL/STORM TIDES	L-162	2.0		CM	0.5	0.5	KM				
CLOUD COVER	L-160										
CLOUD LEVEL	L-160										
CLOUD PARTICLE SIZE DISTRIB	L-160										
CLOUD THICKNESS	L-160										
COASTAL/ESTUARY CIR AMP	L-160										
COASTAL/ESTUARY CIR DIR	L-160										
COASTAL/ESTUARY CIR LOC	L-160										
ICE/SNOW EXTENT	L-160										
ICE/SNOW FRACTION	L-100										
ICEBERG DEFORMATION RATE	L-160										
ICEBERG LOCATION	L-160										
ICEBERG SIZE	L-160										
OCEAN SURFACE CURRENT AMP	L-162	5.0		CM/S	1.0	20.0	KM				
OCEAN SURFACE CURRENT DIR	L-162	10.0			1.0	20.0	KM				
OCEAN SURFACE CURRENT LOC	L-162				1.0	20.0	KM				
OCEAN SURFACE PRESSURE	L-160	1.0	3.0	MB	1.0	10.0	KM				
OCEAN SURFACE WIND DIR	L-162	2.0	10.0	DEG	5.0	10.0	KM				
OCEAN SURFACE WIND DIR	L-160	10.0		%	0.01	10.0	KM				
OCEAN SURFACE WIND SPEED	L-161	0.5	.0	M/S	5.0	10.0	KM				
OCEAN SURFACE WIND SPEED	L-160	10.0		%	0.01	10.0	KM				
OCEAN WAVE AMP	L-162	10.0		%	5.0	10.0	KM				
OCEAN WAVE HEIGHT	L-161	0.5		M	5.0	10.0	KM				
OCEAN WAVE LENGTH AMP	L-162	10.0		%	5.0	10.0	KM				
PRECIP AMOUNT	L-160										
PRECIP EXTENT	L-160										
PRECIP RATE	L-160										
PRECIP TYPE	L-160										
PRECIP WATER PROF	L-160										
SALINITY	L-160										
SEA ICE DRIFT RATE	L-160										
SEDIMENT TRANSPORT AMP	L-160										
SEDIMENT TRANSPORT DIR	L-160										
SEDIMENT TRANSPORT EXTENT	L-160										
SEDIMENT TRANSPORT LOC	L-160										
SEDIMENTATION RATE	L-160										
SURFACE AIR TEMP	L-162	0.1	0.5	DEG C	1.0	100.0	KM				
SURFACE WATER TEMP	L-162	0.1	0.5	DEG C	1.0	100.0	KM				
SUSPENDED PARTICLE CONCEN	L-100										
TURBIDITY	L-161	0.01		PPM	400.0	400.0	M				
UPWELLING EXTENT	L-160										
UPWELLING LOCATION	L-160										
VERT HUMIDITY PROF	L-160										
VERT OCEAN TEMP PROF	L-162	0.1	1.0	DEG C	1.0	100.0	KM				
VERT TEMP PROF	L-162	0.1	0.5	DEG C	1.0	5.0	KM	1.0	1.0	KM	
VERT WIND CONVECT DUCTS LOC	L-160										
VERT WIND CONVECT DUCTS SIZE	L-160										
VERT WIND PROF	L-160										
VISIBILITY	L-160										
WATER ALBEDO	L-160	0.2	1.0	%	1.0	100.0					

DISCIPLINE TITLE - OCEAN PROCESSES
 APPLICATION TITLE - COASTAL OCEAN CONDITION FORECASTING
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 7 2.1

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
ASTRONOMICAL/STORM TIDES	2 HR				
CLOUD COVER					
CLOUD LEVEL					
CLOUD PARTICLE SIZE DISTRIB					
CLOUD THICKNESS					
COASTAL/ESTUARY CIR AMP					
COASTAL/ESTUARY CIR DIR					
COASTAL/ESTUARY CIR LOC					
ICE/SNOW EXTENT					
ICE/SNOW FRACTION					
ICEBERG DEFORMATION RATE					
ICEBERG LOCATION					
ICEBERG SIZE					
OCEAN SURFACE CURRENT AMP	2 HR				
OCEAN SURFACE CURRENT DIR	2 HR				
OCEAN SURFACE CURRENT LOC	2 HR				
OCEAN SURFACE PRESSURE	2-12 HR				
OCEAN SURFACE WIND DIR	2-6 HR				
OCEAN SURFACE WIND DIR	2 HR				
OCEAN SURFACE WIND SPEED	2-6 HR				
OCEAN SURFACE WIND SPEED	2 HR				
OCEAN WAVE AMP	2 HR				
OCEAN WAVE HEIGHT	2 HR				
OCEAN WAVE LENGTH AMP	2 HR				
PRECIP AMOUNT					
PRECIP EXTENT					
PRECIP RATE					
PRECIP TYPE					
PRECIP WATER PROF					
SALINITY					
SEA ICE DRIFT RATE					
SEDIMENT TRANSPORT AMP					
SEDIMENT TRANSPORT DIR					
SEDIMENT TRANSPORT EXTENT					
SEDIMENT TRANSPORT LOC					
SEDIMENTATION RATE					
SURFACE AIR TEMP	2-12 HR				
SURFACE WATER TEMP	2-24 HR				
SUSPENDED PARTICLE CONCEN					
TURBIDITY	12 HR				
UPWELLING EXTENT					
UPWELLING LOCATION					
VERT HUMIDITY PROF					
VERT OCEAN TEMP PROF	2-12 HR				
VERT TEMP PROF	3-12 HR				
VERT WIND CONVECT DUCTS LOC					
VERT WIND CONVECT DUCTS SIZE					
VERT WIND PROF					
VISIBILITY					
WATER ALBEDO	2-12 HR				

FOG/MIST

[illegible]

DISCIPLINE TITLE - OCEAN PROCESSES
APPLICATION TITLE - OCEAN CONTAMINATION
SUBAPPLICATION TITLE - NO TITLE
TREE - 7.2.2

[illegible]

DISCIPLINE TITLE - OCEAN PROCESSES
 APPLICATION TITLE - OCEAN CONTAMINATION
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 7.2 2

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
ALGAE EXTENT					
ALGAE TYPE					
ASTRONOMICAL/STORM TIDES	2 HR				
BACTERIAL SEWAGE EXTENT					
BACTERIAL SEWAGE LOC					
CHEMICAL POLLUTANT CONCEN					
CHEMICAL POLLUTANT EXTENT					
CHEMICAL POLLUTANT TYPE					
CHLOROPHYLL	1 DA				
COASTAL/ESTUARY CIR AMP					
COASTAL/ESTUARY CIR DIR					
COASTAL/ESTUARY CIR LOC					
DISSOLVED NUTRIENTS					
DISSOLVED OXYGEN					
FISH IDENTIFICATION					
FISH OIL/BIPRODUCT EXTENT					
FISH OIL/BIPRODUCT THICKNESS					
FISH OIL/BIPRODUCT TYPE					
FISH SIZE					
METAL CONCEN PROF					HEAVY METALS
METAL CONCEN					HEAVY METALS
METAL TYPE					HEAVY METALS
OCEAN DISEASE VECTOR EXTENT					
OCEAN DISEASE VECTOR TYPE					
OCEAN SURFACE CURRENT AMP	2 HR				
OCEAN SURFACE CURRENT DIR	2 HR				
OCEAN SURFACE CURRENT LOC	2 HR				
OCEAN SURFACE WIND DIR					
OCEAN SURFACE WIND SPEED					
OCEAN WAVE AMP	2 HR				
OCEAN WAVE HEIGHT					
OCEAN WAVE LENGTH AMP	2 HR				
OCEAN WAVE LENGTH DIR	2 HR				
PESTICIDE POLLUTANT EXTENT					
PESTICIDE POLLUTANT TYPE					
PETROLEUM POLLUTANT EXTENT					
PETROLEUM POLLUTANT THICKNESS					
PETROLEUM POLLUTANT TYPE					
PH-BALANCE					
PHYTOPLANKTON EXTENT					
PHYTOPLANKTON TYPE					
RADIOACTIVE WASTE EXTENT					
RADIOACTIVE WASTE STRENGTH					
RADIOACTIVE WASTE TYPE					
SALINITY					

DISCIPLINE TITLE - OCEAN PROCESSES
 APPLICATION TITLE - OCEAN CONTAMINATION
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 7 2.2

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
SEDIMENT TRANSPORT AMP					
SEDIMENT TRANSPORT DIR					
SEDIMENT TRANSPORT EXTENT					
SEDIMENT TRANSPORT LOC					
SUSPENDED PARTICLE CONCEN					
TURBIDITY	6 HR				
UPWELLING EXTENT					
UPWELLING LOCATION					
VEGETATIVE EXTENT					
VEGETATIVE TYPE					
ZOOPLANKTON EXTENT					
ZOOPLANKTON TYPE					

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DISCIPLINE TITLE - OCEAN PROCESSES
APPLICATION TITLE - OCEAN CURRENT
SUBAPPLICATION TITLE - TSUNAMIS IDENTIFICATION AND FORECAST
TREE - 7.2 3 2

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[illegible]

DISCIPLINE TITLE - OCEAN PROCESSES
APPLICATION TITLE - OCEAN CURRENT
SUBAPPLICATION TITLE - TSUNAMIS IDENTIFICATION AND FORECAST
TREE - 7.2.3 2

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
OCEAN WAVE DIR					
OCEAN WAVE HEIGHT					
OCEAN WAVE PERIOD					
OCEAN WAVE SPEED					
SEISMICITY					

DISCIPLINE TITLE - OCEAN PROCESSES
 APPLICATION TITLE - OCEAN CURRENT PREDICTION
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 7.2.3.3

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
OCEAN SURFACE WIND DIR	2-8 DA				
OCEAN SURFACE WIND LOC	2-8 DA				
OCEAN SURFACE WIND SPEED	2-8 DA				
OCEAN SURFACE WIND SPEED	2-8 DA				
OCEAN WAVE HEIGHT	2-8 DA				
OCEAN WAVE SPECTRA					

[illegible]

DISCIPLINE TITLE - OCEAN PROCESSES
APPLICATION TITLE - FISHERY MANAGEMENT
SUBAPPLICATION TITLE - DETECTION OF MARINE SURFACE LIFE
TREE - 7 3.1.2

PARAMETER

FREQUENCY
OF UPDATE

DURATION

AREAL
COVERAGE

OBSERVATION
TIME

COMMENTS

OCEAN SURFACE CURRENT
OCEAN SURFACE PRESSURE
OCEAN SURFACE ROUGHNESS
SALINITY
SEA SURFACE TEMP
UPWELLING EXTENT
UPWELLING LOCATION

DISCIPLINE TITLE - OCEAN PROCESSES
APPLICATION TITLE - FISHERY MANAGEMENT
SUBAPPLICATION TITLE - FISHERY LOCATION
TREE - 7.3.1.3

[illegible]

DISCIPLINE TITLE - OCEAN PROCESSES
APPLICATION TITLE - FISHERY MANAGEMENT
SUBAPPLICATION TITLE - FISHERY LOCATION
TREE - 7 3 1.3

PARAMETER

FREQUENCY
OF UPDATE

DURATION

AREAL
COVERAGE

OBSERVATION
TIME

COMMENTS

OCEAN CURRENT
OCEAN SURFACE PRESSURE
SALINITY
SEA SURFACE TEMP
UPWELLING EXTENT
UPWELLING LOCATION

DISCIPLINE TITLE - OCEAN PROCESSES
 APPLICATION TITLE - GAMEFISH DISTRIBUTION
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 7 3.1.4
 PARAMETER

REFER.	DES ACCUR	BASED ACCUR	ACCUR UNITS	LOW HORIZ RESOL.	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL.	VERT RESOL UNITS	FRESHNESS
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DISCIPLINE TITLE - OCEAN PROCESSES
APPLICATION TITLE - GAMEFISH DISTRIBUTION
SUBAPPLICATION TITLE - NO TITLE
TREE - 7.3.1.4

PARAMETER

FREQUENCY
OF UPDATE

DURATION

AREAL
COVERAGE

OBSERVATION
TIME

COMMENTS

DISCIPLINE TITLE - OCEAN PROCESSES
 APPLICATION TITLE - FISH YIELD MANAGEMENT
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 7 3 1.5

PARAMETER	REFER	DES ACCUR	BASED ACCUR	ACCUR UNITS	LOW HORIZ RESOL	HIGH HORIZ RESOL	HORIZ RES UNITS	LOW VERT RESOL	HIGH VERT RESOL	VERT RESOL UNITS	FRESHNESS
BACTERIAL SEWAGE EXTENT	L-160										
BACTERIAL SEWAGE LOC	L-160										
CHEMICAL POLLUTANT CONCEN	L-160										
CHEMICAL POLLUTANT EXTENT	L-160										
CHEMICAL POLLUTANT TYPE	L-160										
DISSOLVED NUTRIENTS	L-167				50 0	50 0	M				
DISSOLVED OXYGEN	L-167				50 0	50 0	M				
FISH IDENTIFICATION	L-167				.05	20 0	KM				
FISH OIL/BIPRODUCT EXTENT	L-167				.05	20 0	KM				
FISH OIL/BIPRODUCT TYPE	L-167				.05	20 0	KM				
PESTICIDE POLLUTANT EXTENT	L-160										
PESTICIDE POLLUTANT TYPE	L-160										
PETROLEUM POLLUTANT EXTENT	L-160										
PETROLEUM POLLUTANT TYPE	L-160										
PH-BALANCE	L-160										
PHYTOPLANKTON EXTENT	L-167				.05	20 0	KM				
PHYTOPLANKTON TYPE	L-167				0 5	20 0	KM				
RADIOACTIVE WASTE EXTENT	L-160										
RADIOACTIVE WASTE STRENGTH	L-160										
RADIOACTIVE WASTE TYPE	L-100										
VEGETATIVE EXTENT	L-167				.05	20 0	KM				
VEGETATIVE TYPE	L-167				.05	20 0	KM				

DISCIPLINE TITLE - OCEAN PROCESSES
 APPLICATION TITLE - FISH YIELD MANAGEMENT
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 7.3 1.5

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
BACTERICAL SEWAGE EXTENT					
BACTERICAL SEWAGE LOC					
CHEMICAL POLLUTANT CONCEN					
CHEMICAL POLLUTANT EXTENT					
CHEMICAL POLLUTANT TYPE					
DISSOLVED NUTRIENTS	1 YR				
DISSOLVED OXYGEN	1 YR				
FISH IDENTIFICATION	3-12 MON				
FISH OIL/BIPRODUCT EXTENT	3-12 MON				
FISH OIL/BIPRODUCT TYPE	3-12 MON				
PESTICIDE POLLUTANT EXTENT					
PESTICIDE POLLUTANT TYPE					
PETROLEUM POLLUTANT EXTENT					
PETROLEUM POLLUTANT TYPE					
PH-BALANCE					
PHYTOPLANKTON EXTENT	3-12 MON				
PHYTOPLANKTON TYPE	3-12 MON				
RADIOACTIVE WASTE EXTENT					
RADIOACTIVE WASTE STRENGTH					
RADIOACTIVE WASTE TYPE					
VEGETATIVE EXTENT	3-12 MON				
VEGETATIVE TYPE	3-12 MON				

DISCIPLINE TITLE - OCEAN PROCESSES
 APPLICATION TITLE - OCEAN BIOLOGY
 SUBAPPLICATION TITLE - MARINE ECOSYSTEM ANALYSIS PROGRAM
 TREE - 7.3.2.3

PARAMETER	REFER.	DES ACCUR	BASED ACCUR	ACCUR UNITS	LOW HORIZ RESOL	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL	HIGH VERT RESOL.	VERT RESOL UNITS	FRESHNESS
OCEAN SURFACE WIND DIR	L-155	10	20	DEG							
OCEAN SURFACE WIND SPEED	L-155	1 0	2.	M/S	10.	50.	KM				
OCEAN WAVE DIR	L-155	15		%	50	50.	M				
OCEAN WAVE HEIGHT	L-155	0 5	1.	M	1 6	12 0	KM				
OCEAN WAVE LENGTH	L-155	10.		%	50	50	M				
SEA SURFACE TEMP	L-155	0 5	2	DEG	25	100	KM				
VECTOR FLOW FIELD	L-155	5.	10.	CM/S	10	100.	M				

DISCIPLINE TITLE - OCEAN PROCESSES
 APPLICATION TITLE - OCEAN BIOLOGY
 SUBAPPLICATION TITLE - MARINE ECOSYSTEM ANALYSIS PROGRAM
 TREE - 7.3.2.3

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
OCEAN SURFACE WIND DIR	2-8 DA				
OCEAN SURFACE WIND SPEED	2-8 DA				
OCEAN WAVE DIR					
OCEAN WAVE HEIGHT					
OCEAN WAVE LENGTH					
SEA SURFACE TEMP	1-7 DA				
VECTOR FLOW FIELD	1-7 DA				

DISCIPLINE TITLE - OCEAN PROCESSES
APPLICATION TITLE - OCEAN BIOLOGY
SUBAPPLICATION TITLE - STUDY OF PHYTOPLANKTON PATCHINESS
TREE - 7 3 2.4

PARAMETER	REFER	DES ACCUR	BASED ACCUR	ACCUR UNITS	LOW HORIZ RESOL.	HIGH HORIZ RESOL	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL.	VERT RESOL UNITS	FRESHNESS
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CHLOROPHYLL L-200
PHYTOPLANKTON EXTENT L-0

DISCIPLINE TITLE - OCEAN PROCESSES
APPLICATION TITLE - OCEAN BIOLOGY
SUBAPPLICATION TITLE - STUDY OF PHYTOPLANKTON PATCHINESS
TREE - 7.3.2.4

PARAMETER

FREQUENCY
OF UPDATE

DURATION

AREAL
COVERAGE

OBSERVATION
TIME

COMMENTS

CHLOROPHYLL
PHYTOPLANKTON EXTENT

[illegible]

DISCIPLINE TITLE - OCEAN PROCESSES
APPLICATION TITLE - OCEAN BIOLOGY
SUBAPPLICATION TITLE - EFFECTS OF PHYSICAL FRONTS ON BIOLOGICAL PRODUCTIVITY
TREE - 7.3.2.5

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
COLOR, TONAL PATTERNS					
PHYTOPLANKTON EXTENT					
SEA SURFACE TEMP					

DISCIPLINE TITLE - OCEAN PROCESSES
APPLICATION TITLE - LIVING MARINE RESOURCES
SUBAPPLICATION TITLE - NO TITLE
TREE - 7. 3. 2. 6

[illegible]

DISCIPLINE TITLE - OCEAN PROCESSES
APPLICATION TITLE - LIVING MARINE RESOURCES
SUBAPPLICATION TITLE - NO TITLE
TREE - 7.3 2.6

[illegible]

DISCIPLINE TITLE - OCEAN PROCESSES
 APPLICATION TITLE - LIVING MARINE RESOURCES
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 7.3 2.6

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
ALGAE EXTENT					
ALGAE TYPE					
ASTRONOMICAL/STORM TIDES	2 HR				
BACTERICAL SEWAGE EXTENT					
BACTERICAL SEWAGE LOC					
CHEMICAL POLLUTANT CONCEN					
CHEMICAL POLLUTANT EXTENT					
CHEMICAL POLLUTANT TYPE					
CHLOROPHYLL	2-3 DA				
COASTAL/ESTUARY CIR AMP					
COASTAL/ESTUARY CIR DIR					
COASTAL/ESTUARY CIR LOC					
DISSOLVED NUTRIENTS					
DISSOLVED OXYGEN					
FISH OIL/BIPRODUCT EXTENT					
FISH OIL/BIPRODUCT TYPE					
FISH SIZE					
ICE/SNOW EXTENT					
OCEAN SURFACE CURRENT AMP	6 HR				
OCEAN SURFACE CURRENT DIR	6 HR				
OCEAN SURFACE CURRENT LOC	6 HR				
OCEAN SURFACE PRESSURE					
OCEAN SURFACE WIND DIR	12 HR				L-166
OCEAN SURFACE WIND DIR	2 HR				
OCEAN SURFACE WIND SPEED	12 HR				L-166
OCEAN SURFACE WIND SPEED	2 HR				
OCEAN WAVE AMP	2 HR				
OCEAN WAVE HEIGHT	2HR				
OCEAN WAVE LENGTH AMP	2 HR				
OCEAN WAVE LENGTH DIR	2 HR				
PESTICIDE POLLUTANT EXTENT					
PESTICIDE POLLUTANT TYPE					
PETROLEUM POLLUTANT EXTENT					
PETROLEUM POLLUTANT THICKNESS					
PETROLEUM POLLUTANT TYPE					
PH-BALANCE					
PHYTOPLANKTON EXTENT					
RADIOACTIVE STRENGTH					
RADIOACTIVE WASTE EXTENT					
RADIOACTIVE WASTE TYPE					
SALINITY	2 HR				
SEA ICE DRIFT RATE					
SEDIMENT TRANSPORT AMP					
SEDIMENT TRANSPORT DIR					
SEDIMENT TRANSPORT EXTENT					
SEDIMENT TRANSPORT LOC					

DISCIPLINE TITLE - OCEAN PROCESSES
 APPLICATION TITLE - LIVING MARINE RESOURCES
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 7.3.2.6

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
SEDIMENTATION RATE					
SHIP LOCATION	2-12 HR				
SHOAL/SHORELINE MOVEMENT					
SURFACE AIR TEMP	2-12 HR				
SURFACE WATER TEMP	2-24 HR				
SUSPENDED PARTICLE CONCEN					
TOPOGRAPHIC FEATURES					COASTAL BATHOMETRY
TURBIDITY	12 HR				
UPWELLING EXTENT					
UPWELLING LOCATION					
WATER ALBEDO					
ZOOPLANKTON EXTENT					
ZOOPLANKTON TYPE					

DISCIPLINE TITLE - OCEAN PROCESSES
 APPLICATION TITLE - OCEAN CLIMATE
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 7.4.1.1

PARAMETER	REFER	DES ACCUR	BASD ACCUR.	ACCUR. UNITS	LOW HORIZ RESOL.	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL	VERT RESOL UNITS	FRESHNESS
AIR/SEA TEMP DIFF	L-200	1		DEG C							
CLOUD COVER	L-200	5	50.	%							
CLOUD TOP HEIGHT	L-200	0.5	1.0	KM							
OCEAN SURFACE CURRENT AMP	L-200	1.		M/S							
OCEAN SURFACE CURRENT DIR	L-200										
OCEAN SURFACE CURRENT LOC	L-200										
OCEAN SURFACE WIND DIR	L-200	0	15.	DEG							
OCEAN SURFACE WIND SPEED	L-200	1	3	N/S							
PRECIP RATE	L-200		50	%							
PRECIP WATER	L-200	10	50	%							
SALINITY	L-200	0.5		PPT							
SEA LEVEL HEIGHT	L-200	209	50	CM							
SEA LEVEL PRESSURE	L-200	2	3.	MB	200 0	200. 0	KM				
SEA SURFACE TEMP	L-200	2		DEG C							
THERMOCLINE DEPTH	L-200										
VERT HUMIDITY PROF	L-200										
VERT TEMP PROF	L-200	2		DEG C							

DISCIPLINE TITLE - OCEAN PROCESSES
 APPLICATION TITLE - OCEAN CLIMATE
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 7.4.1.1

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
AIR/SEA TEMP DIFF		YR	GLOBAL		
CLOUD COVER		YR	GLOBAL		
CLOUD TOP HEIGHT		YR	GLOBAL		
OCEAN SURFACE CURRENT AMP		YR	GLOBAL		
OCEAN SURFACE CURRENT DIR		YR	GLOBAL		
OCEAN SURFACE CURRENT LOC		YR	GLOBAL		
OCEAN SURFACE WIND DIR		YR	GLOBAL		
OCEAN SURFACE WIND SPEED		YR	GLOBAL		
PRECIP RATE		YR	GLOBAL		RAINFALL
PRECIP WATER		YR	GLOBAL		
SALINITY		YR	GLOBAL		
SEA LEVEL HEIGHT		YR	GLOBAL		
SEA LEVEL PRESSURE		YR	GLOBAL		
SEA SURFACE TEMP		YR	GLOBAL		
THERMOCLINE DEPTH		YR	GLOBAL		
VERT HUMIDITY PROF		YR	GLOBAL		DESIRED ACC FAC 2
VERT TEMP PROF		YR	GLOBAL		

DISCIPLINE TITLE - OCEAN PROCESSES
 APPLICATION TITLE - OCEAN CLIMATE
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 7 4 1.1

PARAMETER	REFER.	DES ACCUR.	BASED ACCUR	ACCUR. UNITS	LOW HORIZ RESOL	HIGH HORIZ RESOL	HORIZ RES UNITS	LOW VERT RESOL	HIGH VERT RESOL.	VERT RESOL UNITS	FRESHNESS
AIR/SEA TEMP DIFF	L-200	1.		DEG C							
CLOUD COVER	L-200	5.	50.	%							
CLOUD TOP HEIGHT	L-200	0.5	1 0	KM							
OCEAN SURFACE CURRENT AMP	L-200	1.		M/S							
OCEAN SURFACE CURRENT DIR	L-200										
OCEAN SURFACE CURRENT LOC	L-200										
OCEAN SURFACE WIND DIR	L-200	0	15	DEG							
OCEAN SURFACE WIND SPEED	L-200	1.	3	N/S							
PRECIP RATE	L-200		50.	%							
PRECIP WATER	L-200	10	50.	%							
SALINITY	L-200	0.5		PPT							
SEA LEVEL HEIGHT	L-200	209	50	CM							
SEA LEVEL PRESSURE	L-200	2	3	MB	200 0	200. 0	KM				
SEA SURFACE TEMP	L-200			DEG C							
THERMOCLINE DEPTH	L-200										
VERT HUMIDITY PROF	L-200										
VERT TEMP PROF	L-200	2.		DEG C							

DISCIPLINE TITLE - OCEAN PROCESSES
 APPLICATION TITLE - OCEAN CLIMATE
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 7 4 1.1

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
AIR/SEA TEMP DIFF		YR	GLOBAL		
CLOUD COVER		YR	GLOBAL		
CLOUD TOP HEIGHT		YR	GLOBAL		
OCEAN SURFACE CURRENT AMP		YR	GLOBAL		
OCEAN SURFACE CURRENT DIR		YR	GLOBAL		
OCEAN SURFACE CURRENT LOC		YR	GLOBAL		
OCEAN SURFACE WIND DIR		YR	GLOBAL		
OCEAN SURFACE WIND SPEED		YR	GLOBAL		
PRECIP RATE		YR	GLOBAL		RAINFALL
PRECIP WATER		YR	GLOBAL		
SALINITY		YR	GLOBAL		
SEA LEVEL HEIGHT		YR	GLOBAL		
SEA LEVEL PRESSURE		YR	GLOBAL		
SEA SURFACE TEMP		YR	GLOBAL		
THERMOCLINE DEPTH		YR	GLOBAL		
VERT HUMIDITY PROF		YR	GLOBAL		DESIRED ACC FAC 2
VERT TEMP PROF		YR	GLOBAL		

DISCIPLINE TITLE - OCEAN PROCESSES
 APPLICATION TITLE - OCEAN ROLE IN THE CLIMATIC CHANGE
 SUBAPPLICATION TITLE - INVESTIGATION OF EL NINO
 TREE - 7.4.1.4.1

PARAMETER	REFER.	DES ACCUR.	BASED ACCUR	ACCUR UNITS	LOW HORIZ RESOL.	HIGH HORIZ RESOL	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL.	VERT RESOL UNITS	FRESHNESS
CLOUD TEMP	L-155										
OCEAN SURFACE WIND DIR	L-155				10.0	50.0	KM				
OCEAN SURFACE WIND SPEED	L-155	1	2	M/S	10.0	50.0	KM				
OCEAN SURFACE WIND SPEED	L-155				10.0	50.0	KM				
SEA SURFACE TEMP	L-155	0.5	2.	DEG C	25.0	100.0	KM				
TOPOGRAPHIC FEATURES	L-155				10.0	10.0	KM				
UPWELLING EXTENT	L-155	5.	10.	M	10.0	100.0	KM				
UPWELLING LOCATION	L-155				10.0	100.0	KM				

DISCIPLINE TITLE - OCEAN PROCESSES
 APPLICATION TITLE - OCEAN ROLE IN THE CLIMATIC CHANGE
 SUBAPPLICATION TITLE - INVESTIGATION OF EL NINO
 TREE - 7.4.1.4.1

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
CLOUD TEMP			PACIFIC		
OCEAN SURFACE WIND DIR	2-8 DA		PACIFIC		
OCEAN SURFACE WIND SPEED	2-8 DA		PACIFIC		
OCEAN SURFACE WIND SPEED	2-8 DA		PACIFIC		
SEA SURFACE TEMP	1-7 DA		PACIFIC		
TOPOGRAPHIC FEATURES			PACIFIC		
UPWELLING EXTENT	5-7 DA		TROPICS		OCEAN TOPOGRAPHY
UPWELLING LOCATION	5-7 DA		TROPICS		

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DISCIPLINE TITLE - OCEAN PROCESSES
APPLICATION TITLE - TRAFFIC MANAGEMENT
SUBAPPLICATION TITLE - SHIP ROUTING CONSIDERATION
TREE - 7 4.2.1 1
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[illegible]

DISCIPLINE TITLE - OCEAN PROCESSES
APPLICATION TITLE - TRAFFIC MANAGEMENT
SUBAPPLICATION TITLE - SHIP ROUTING CONSIDERATION
TREE - 7 4.2.1 1

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
OCEAN SURFACE WIND DIR					
OCEAN SURFACE WIND SPEED					
SEA STATE					
SEA SURFACE TEMP					
SHIP LOCATION					
STORM INTENSITY					
STORM LOCATION					
VISIBILITY					

DISCIPLINE TITLE - OCEAN PROCESSES
APPLICATION TITLE - MARINE SEARCH AND RESCUE
SUBAPPLICATION TITLE - OPERATIONS/NAVIGATIONAL ASSESSMENT
TREE - 7 4 2.2

[illegible]

DISCIPLINE TITLE - OCEAN PROCESSES
 APPLICATION TITLE - MARINE SEARCH AND RESCUE
 SUBAPPLICATION TITLE - OPERATIONS/NAVIGATIONAL ASSESSMENT
 TREE - 7.4 2.2

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
CURRENT VELOCITY	6-24 HR	DA-WK	GLOBAL OCEAN AREA	ALL SEASONS	
OCEAN SURFACE WIND DIR	6 HR	DA-WK	GLOBAL OCEAN AREA	ALL SEASONS	
OCEAN SURFACE WIND SPEED	6 HR	DA-WK	GLOBAL OCEAN AREA	ALL SEASONS	
OCEAN WAVE DIR	3 HR	DA-WK	GLOBAL OCEAN AREA	ALL SEASONS	
OCEAN WAVE HEIGHT		DA-WK	GLOBAL OCEAN AREA	ALL SEASONS	
SHIP LOCATION	12 HR	DA-WK	GLOBAL OCEAN AREA	ALL SEASONS	
SHIP SIZE	12 HR				
VISIBILITY		DA-WK	GLOBAL OCEAN AREA	ALL SEASONS	

DISCIPLINE TITLE - OCEAN PROCESSES
APPLICATION TITLE - PHYSICAL OCEAN RESEARCH
SUBAPPLICATION TITLE - NO TITLE
TREE - 7.5.1

[illegible]

DISCIPLINE TITLE - OCEAN PROCESSES
 APPLICATION TITLE - PHYSICAL OCEAN RESEARCH
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 7 5 1

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
ASTRONOMICAL/STORM TIDES	2 HR				
COASTAL/ESTUARY CIR AMP					
COASTAL/ESTUARY CIR DIR					
COASTAL/ESTUARY CIR LOC					
ICE AGE	0.5-3 DA				
ICE SALINITY	0.5-3 DA				
ICE THICKNESS	0.5-3 DA				
ICE/SNOW EXTENT					
ICE/SNOW FRACTION	0.5-3 DA				
OCEAN SURFACE CURRENT AMP	2 HR				
OCEAN SURFACE CURRENT DIR	2 HR				
OCEAN SURFACE CURRENT LOC	2 HR				
OCEAN SURFACE WIND DIR					
OCEAN SURFACE WIND SPEED					
OCEAN SURFACE WIND SPEED					
OCEAN WAVE AMP	2 HR				
OCEAN WAVE HEIGHT	2 HR				
OCEAN WAVE LENGTH AMP	2 HR				
OCEAN WAVE LENGTH DIR	1 HR				
SALINITY	12 HR -30 DA				
SEA ICE DRIFT RATE					
SEDIMENT TRANSPORT AMP					
SEDIMENT TRANSPORT DIR					
SEDIMENT TRANSPORT EXTENT					
SEDIMENT TRANSPORT LOC					
SEDIMENTATION RATE					
SHOAL/SHORELINE MOVEMENT					
SUSPENDED PARTICLE CONCEN					
TOPOGRAPHIC FEATURES					
TURBIDITY	6 HR				
UPWELLING EXTENT					
UPWELLING LOCATION					

COASTAL BETHYMETRY

FREE PARAMETER

REFER.

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UNITS

FRESHNESS

ASTRONOMICAL/STORM TIDES
COASTAL/ESTUARY CIR AMP
COASTAL/ESTUARY CIR DIR
COASTAL/ESTUARY CIR LOC
ICE THICKNESS
OCEAN SURFACE CURRENT AMP
OCEAN SURFACE CURRENT DIR
OCEAN SURFACE CURRENT LOC
OCEAN SURFACE PRESSURE
OCEAN SURFACE WIND DIR
OCEAN SURFACE WIND DIR
OCEAN SURFACE WIND SPEED
OCEAN SURFACE WIND SPEED
OCEAN WAVE AMP
OCEAN WAVE HEIGHT
OCEAN WAVE LENGTH DIR
SALINITY
SEDIMENT TRANSPORT AMP
SEDIMENT TRANSPORT DIR
SEDIMENT TRANSPORT EXTENT
SEDIMENT TRANSPORT LOC
SEDIMENTATION RATE
SHOAL/SHORELINE MOVEMENT
SURFACE AIR TEMP
SURFACE WATER TEMP
SUSPENDED PARTICLE CONCENTR
TOPOGRAPHIC FEATURES
UPWELLING EXTENT
UPWELLING LOCATION
VERT OCEAN TEMP PROF
VERT TEMP PROF
VERT WIND CONVECT DUCTS LOC
VERT WIND CONVECT DUCTS SIZE
VERT WIND PROF AMP
VERT WIND PROF DIR
WATER ALBEDO

DISCIPLINE TITLE ~ OCEAN PROCESSES
 APPLICATION TITLE ~ OCEAN ENGINEERING
 SUBAPPLICATION TITLE ~ NO TITLE
 TREE ~ 7.5.1.1

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
ASTRONOMICAL/STORM TIDES	2-24 HR				
COASTAL/ESTUARY CIR AMP					
COASTAL/ESTUARY CIR DIR					
COASTAL/ESTUARY CIR LOC					
ICE THICKNESS					
OCEAN SURFACE CURRENT AMP					
OCEAN SURFACE CURRENT DIR					
OCEAN SURFACE CURRENT LOC					
OCEAN SURFACE PRESSURE	2-12 HR				
OCEAN SURFACE WIND DIR	2-6 HR				
OCEAN SURFACE WIND DIR					SHEAR
OCEAN SURFACE WIND SPEED	2-6 HR				
OCEAN SURFACE WIND SPEED					SHEAR
OCEAN WAVE AMP	2 HR				
OCEAN WAVE HEIGHT	2 HR				
OCEAN WAVE LENGTH DIR	2 HR				
SALINITY					
SEDIMENT TRANSPORT AMP					
SEDIMENT TRANSPORT DIR					
SEDIMENT TRANSPORT EXTENT					
SEDIMENT TRANSPORT LOC					
SEDIMENTATION RATE					
SHOAL/SHORELINE MOVEMENT					
SURFACE AIR TEMP	2-12 HR				
SURFACE WATER TEMP	2-12 HR				
SUSPENDED PARTICLE CONCEN					
TOPOGRAPHIC FEATURES					COASTAL BATHYMETRY
UPWELLING EXTENT					
UPWELLING LOCATION					
VERT OCEAN TEMP PROF	2-24 HR				
VERT TEMP PROF	2-12 HR				
VERT WIND CONVECT DUCTS LOC					
VERT WIND CONVECT DUCTS SIZE					
VERT WIND PROF AMP					
VERT WIND PROF DIR					
WATER ALBEDO					

DISCIPLINE TITLE - OCEAN PROCESSES
APPLICATION TITLE - CHEMICAL OCEAN RESEARCH
SUBAPPLICATION TITLE - NO TITLE
TREE - 7.5.2

[illegible]

DISCIPLINE TITLE - OCEAN PROCESSES
 APPLICATION TITLE - CHEMICAL OCEAN RESEARCH
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 7.5 2

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
COASTAL/ESTUARY CIR AMP					
COASTAL/ESTUARY CIR DIR					
COASTAL/ESTUARY CIR LOC					
OCEAN SURFACE WIND DIR					
OCEAN SURFACE WIND SPEED					
SEDIMENT TRANSPORT AMP					
SEDIMENT TRANSPORT DIR					
SEDIMENT TRANSPORT LOC					
UPWELLING EXTENT					
UPWELLING LOCATION					

DISCIPLINE TITLE - OCEAN PROCESSES
APPLICATION TITLE - PHYSICAL OCEAN RESEARCH
SUBAPPLICATION TITLE - NO TITLE
TREE - 7 5.1

[illegible]

DISCIPLINE TITLE - OCEAN PROCESSES
 APPLICATION TITLE - PHYSICAL OCEAN RESEARCH
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 7.5.1

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
ASTRONOMICAL/STORM TIDES	2 HR				
COASTAL/ESTUARY CIR AMP					
COASTAL/ESTUARY CIR DIR					
COASTAL/ESTUARY CIR LOC					
ICE AGE	0.5-3 DA				
ICE SALINITY	0.5-3 DA				
ICE THICKNESS	0.5-3 DA				
ICE/SNOW EXTENT					
ICE/SNOW FRACTION	0.5-3 DA				
OCEAN SURFACE CURRENT AMP	2 HR				
OCEAN SURFACE CURRENT DIR	2 HR				
OCEAN SURFACE CURRENT LOC	2 HR				
OCEAN SURFACE WIND DIR					
OCEAN SURFACE WIND SPEED					
OCEAN SURFACE WIND SPEED					
OCEAN WAVE AMP	2 HR				
OCEAN WAVE HEIGHT	2 HR				
OCEAN WAVE LENGTH AMP	2 HR				
OCEAN WAVE LENGTH DIR	1 HR				
SALINITY	12 HR -30 DA				
SEA ICE DRIFT RATE					
SEDIMENT TRANSPORT AMP					
SEDIMENT TRANSPORT DIR					
SEDIMENT TRANSPORT EXTENT					
SEDIMENT TRANSPORT LOC					
SEDIMENTATION RATE					
SHOAL/SHORELINE MOVEMENT					
SUSPENDED PARTICLE CONCEN					
TOPOGRAPHIC FEATURES					
TURBIDITY	6 HR				
UPWELLING EXTENT					
UPWELLING LOCATION					

COASTAL BETHYMETRY

SUBAPPLICATION TITLE - NO TITLE
TREE - 7.5 1.1

[illegible]

DISCIPLINE TITLE - OCEAN PROCESSES
 APPLICATION TITLE - OCEAN ENGINEERING
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 7 5.1 1

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
ASTRONOMICAL/STORM TIDES	2-24 HR				
COASTAL/ESTUARY CIR AMP					
COASTAL/ESTUARY CIR DIR					
COASTAL/ESTUARY CIR LOC					
ICE THICKNESS					
OCEAN SURFACE CURRENT AMP					
OCEAN SURFACE CURRENT DIR					
OCEAN SURFACE CURRENT LOC					
OCEAN SURFACE PRESSURE	2-12 HR				
OCEAN SURFACE WIND DIR	2-6 HR				
OCEAN SURFACE WIND DIR					SHEAR
OCEAN SURFACE WIND SPEED	2-6 HR				
OCEAN SURFACE WIND SPEED					SHEAR
OCEAN WAVE AMP	2 HR				
OCEAN WAVE HEIGHT	2 HR				
OCEAN WAVE LENGTH DIR	2 HR				
SALINITY					
SEDIMENT TRANSPORT AMP					
SEDIMENT TRANSPORT DIR					
SEDIMENT TRANSPORT EXTENT					
SEDIMENT TRANSPORT LOC					
SEDIMENTATION RATE					
SHOAL/SHORELINE MOVEMENT					
SURFACE AIR TEMP	2-12 HR				
SURFACE WATER TEMP	2-12 HR				
SUSPENDED PARTICLE CONCEN					
TOPOGRAPHIC FEATURES					COASTAL BATHYMETRY
UPWELLING EXTENT					
UPWELLING LOCATION					
VERT OCEAN TEMP PROF	2-24 HR				
VERT TEMP PROF	2-12 HR				
VERT WIND CONVECT DUCTS LOC					
VERT WIND CONVECT DUCTS SIZE					
VERT WIND PROF AMP					
VERT WIND PROF DIR					
WATER ALBEDO					

DISCIPLINE TITLE - OCEAN PROCESSES
APPLICATION TITLE - CHEMICAL OCEAN RESEARCH
SUBAPPLICATION TITLE - NO TITLE
TREE - 7. 5. 2

[illegible]

DISCIPLINE TITLE - OCEAN PROCESSES
APPLICATION TITLE - CHEMICAL OCEAN RESEARCH
SUBAPPLICATION TITLE - NO TITLE
TREE - 7.5.2

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
COASTAL/ESTUARY CIR AMP					
COASTAL/ESTUARY CIR DIR					
COASTAL/ESTUARY CIR LOC					
OCEAN SURFACE WIND DIR					
OCEAN SURFACE WIND SPEED					
SEDIMENT TRANSPORT AMP					
SEDIMENT TRANSPORT DIR					
SEDIMENT TRANSPORT LOC					
UPWELLING EXTENT					
UPWELLING LOCATION					

DISCIPLINE TITLE - OCEAN PROCESSES
APPLICATION TITLE - MARINE GEOLOGY
SUBAPPLICATION TITLE - NO TITLE
TREE - 7.53

[illegible]

DISCIPLINE TITLE - OCEAN PROCESSES
 APPLICATION TITLE - MARINE GEOLOGY
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 7 5.3

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
ASTRONOMICAL/STORM TIDES	2 HR				
COASTAL/ESTUARY CIR AMP					
COASTAL/ESTUARY CIR LOC					
COASTAL/ESTURAY CIR DIR					
MARINE GEODID					
OCEAN SURFACE CURRENT DIR					
OCEAN SURFACE CURRENT LOC					
OCEAN SURFACE WIND DIR					
OCEAN SURFACE WIND SPEED					
OCEAN SURFACE WIND SPEED					
OCEAN WAVE AMP	2 HR				
OCEAN WAVE HEIGHT	2 HR				
OCEAN WAVE LENGTH	2 HR				
OCEAN WAVE LENGTH DIR	2 HR				
SEDIMENT TRANSPORT AMP					
SEDIMENT TRANSPORT DIR					
SEDIMENT TRANSPORT LOC					
SEDIMENTATION RATE					
SHOAL/SHORELINE MOVEMENT					
SURFACE WATER TEMP	2-24 HR				
SUSPENDED PARTICLE CONCEN					
TOPOGRAPHIC FEATURES					
TURBIDITY	6 HR				
UPWELLING EXTENT					
UPWELLING LOCATION					
VERT TEMP PROF					
VERT WIND CONVECT DUCTS LOC					
VERT WIND CONVECT DUCTS SIZE					
WATER ALBEDO					

COASTAL BATHYMETRY

DISCIPLINE TITLE - OCEAN PROCESSES
APPLICATION TITLE - OCEAN ENGINEERING
SUBAPPLICATION TITLE - NO TITLE
TREE - 7.6.1.1

[illegible]

DISCIPLINE TITLE - OCEAN PROCESSES
APPLICATION TITLE - OCEAN ENGINEERING
SUBAPPLICATION TITLE - NO TITLE
TREE - 7.6.1.1

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
SEA SURFACE TEMP	2-24 HT				
SURFACE AIR TEMP	2-12 HR				
VERT OCEAN TEMP PROF	2-24 HR				
VERT TEMP PROF	2-12 HR				
WATER ALBEDO					

DISCIPLINE TITLE - OCEAN PROCESSES
 APPLICATION TITLE - OCEAN DYNAMICS
 SUBAPPLICATION TITLE - WIND DRIVEN OCEAN CIRCULATION
 TREE - 7.

PARAMETER	REFER.	DES. ACCUR	BASD ACCUR	ACCUR. UNITS	LOW HORIZ RESOL	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL.	VERT RESOL UNITS	FRESHNESS
OCEAN SURFACE WIND DIR	L-155	10	20.	DEG	50 0	50 0	KM				
OCEAN SURFACE WIND SPEED	L-155	2.		M/S	50 0	50. 0	KM				

DISCIPLINE TITLE - OCEAN PROCESSES
APPLICATION TITLE - OCEAN DYNAMICS
SUBAPPLICATION TITLE - WIND DRIVEN OCEAN CIRCULATION
TREE - 7.

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
OCEAN SURFACE WIND DIR					
OCEAN SURFACE WIND SPEED					

[illegible]

DISCIPLINE TITLE - OCEAN PROCESSES
APPLICATION TITLE - OCEAN CURRENT PREDICTION
SUBAPPLICATION TITLE - NO TITLE
TREE - 7.0.0 0.0

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
OCEAN SURFACE WIND DIR	2-8 DA				
OCEAN SURFACE WIND LOC	2-8 DA				
OCEAN SURFACE WIND SPEED	2-8 DA				
OCEAN SURFACE WIND SPEED	2-8 DA				
OCEAN WAVE HEIGHT	2-8 DA				
OCEAN WAVE SPECTRA					

Severe Storms Applications
Data Sheets

DISCIPLINE TITLE - SEVERE STORMS
 APPLICATION TITLE - THUNDERSTORM PREDICTION & WARNING
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 8 1.1.1

PARAMETER	REFER	DES ACCUR.	BASED ACCUR	ACCUR. UNITS	LOW HORIZ RESOL	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL.	VERT RESOL UNITS	FRESHNESS
AIR INSTABILITY	L-0	0.1	1.0		1.0	10.0	KM				MIN
AIR INSTABILITY	L-73				4.0	4.0	KM				MIN
AIR TEMP	L-73	0.1	1.0	C	4.0	4.0	KM				MIN
CLOUD COVER	L-73	1.0	20.0	%	4.0	4.0	KM				MIN
CLOUD TYPE	L-75				1.0	10.0	KM				MIN
DEW POINT TEMP	L-0	0.1	1.0	C	10.0	10.0	KM				MIN
DEW POINT TEMP	L-73	0.1	1.0	C	4.0	4.0	KM				MIN
LATENT HEAT	L-73				4.0	4.0	KM				MIN
LIGHTNING FREQUENCY	L-0			KM	1.0	10.0					MIN
MIXING RATIO PROF	L-0				10.0	10.0	KM				MIN
MOISTURE CONVERGENCE	L-0				1.0	10.0					MIN
PRECIP AMOUNT	L-0		0.1	CM	4.0	4.0	KM				MIN
PRECIP RATE	L-0	0.5	2.0	CM/HR	4.0	4.0	KM				MIN
PRECIP TYPE	L-0				4.0	4.0	KM				MIN
SEA LEVEL PRESSURE	L-73	1.0	1.0	MB	4.0	4.0	KM				MIN
STORM INTENSITY	L-0				1.0	10.0	KM				MIN
STORM LOCATION	L-0				1.0	10.0	KM				MIN
SURFACE PRESSURE	L-75	1.0	3.0	MB	1.0	10.0	KM				MIN
SURFACE TEMP	L-75	0.1	1.3	DEG C	10.0	10.0	KM				MIN
SURFACE WIND AMP	L-0	1.0	3.0	M/S	4.0		KM				MIN
VERT HUMIDITY PROF	L-75	1.0	30.0	%		10.0	KM				MIN
VERT HUMIDITY PROF	L-73	1.0	30.0	%	4.0	4.0	KM	2.0	2.0	KM	MIN
VERT TEMP PROF	L-75	0.1	2.0	DEG C	10.0	10.0	KM				MIN
VERT TEMP PROF	L-73	0.1	2.0	C	4.0	4.0	KM	2.0	2.0	KM	MIN
VERT VELOCITY	L-0				4.0	4.0	KM				MIN
VERT WIND PROF	L-0	1.	3.	MB	1.	10.	KM	0.5	5.	KM	MIN
VERT WIND PROF	L-0	1.	3.	MB	4.	4.	KM	2.0	2.	KM	MIN

DISCIPLINE TITLE - SEVERE STORMS
 APPLICATION TITLE - THUNDERSTORM PREDICTION & WARNING
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 8 1.1.1

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
AIR INSTABILITY	HR	HR	LOCAL	ALL SEASONS	
AIR INSTABILITY	MIN	HR-DA	LOCAL	ALL SEASONS	
AIR TEMP	MIN	HR-DA	LOCAL	ALL SEASONS	L-160
CLOUD COVER	MIN	HR-DA	LOCAL	ALL SEASONS	L-160
CLOUD TYPE	MIN	HR	LOCAL	ALL SEASONS	
DEW POINT TEMP	HR	HR	LOCAL	ALL SEASONS	
DEW POINT TEMP	MIN	HR-DA	LOCAL	ALL SEASONS	L-160
LATENT HEAT	MIN	HR-DA	LOCAL	ALL SEASONS	RELEASE
LIGHTNING FREQUENCY	MIN	HR	LOCAL	ALL SEASONS	
MIXING RATIO PROF	HR	HR	LOCAL	ALL SEASONS	
MOISTURE CONVERGENCE	MIN	HRS	LOCAL	ALL SEASONS	
PRECIP AMOUNT	MIN	HR-DA	LOCAL	ALL SEASONS	L-160
PRECIP RATE	MIN	HR-DA	LOCAL	ALL SEASONS	L-160
PRECIP TYPE	MIN	HR-DA	LOCAL	ALL SEASONS	RAIN/HAIL
SEA LEVEL PRESSURE	MIN	HR-DA	LOCAL	ALL SEASONS	L-160
STORM INTENSITY	MIN	HR	LOCAL	ALL SEASONS	
STORM LOCATION	MIN	HR	LOCAL	ALL SEASONS	
SURFACE PRESSURE	MIN	HRS	LOCAL	ALL SEASONS	
SURFACE TEMP	HR	HR	LOCAL	ALL SEASONS	
SURFACE WIND AMP	MIN	HR-DA	LOCAL	ALL SEASONS	L-160
VERT HUMIDITY PROF	HR	JR	LOCAL	ALL SEASONS	
VERT HUMIDITY PROF	MIN	HR-DA	LOCAL	ALL SEASONS	L-160
VERT TEMP PROF	HR	HR	LOCAL	ALL SEASONS	
VERT TEMP PROF	MIN	HR-DA	LOCAL	ALL SEASONS	L-160
VERT VELOCITY	MIN	HR-DA	LOCAL	ALL SEASONS	
VERT WIND PROF	MIN	HR	LOCAL	ALL SEASONS	L-160
VERT WIND PROF	MIN	HR-DA	LOCAL	ALL SEASONS	L-160

DISCIPLINE TITLE - SEVERE STORMS
APPLICATION TITLE - TORNADO PREDICTION & WARNING
SUBAPPLICATION TITLE - NO TITLE
TREE - 8 1 1.2
PARAMETER

[illegible]

DISCIPLINE TITLE - SEVERE STORMS
 APPLICATION TITLE - TORNADO PREDICTION & WARNING
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 8.1.1.2

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
AIR INSTABILITY	1 MIN	HR-DA	15-60 DEG	ALL SEASONS	
DEW POINT TEMP	1.0 MIN	HR-DA	15-60. DEG	ALL SEASONS	
LIGHTNING FREQUENCY	5. MIN	HR-DA	15-60. DEG	ALL SEASONS	
LOCATION OF JET STREAM	1 MIN	HR-DA	15-60 DEG	ALL SEASONS	
LOCATION OF SQUALL LINE	5 MIN	HR-DA	15-60 DEG	ALL SEASONS	
MOISTURE TONGUE	1 MIN	HR-DA	15-60 DEG	ALL SEASONS	
STORM PATH	5 MIN	HR-DA	15-60. DEG	ALL SEASONS	
TEMP PROF	1 MIN	-DA	15-60 DEG	ALL SEASONS	L-160
VERT HUMIDITY PROF	1 MIN	HR-DA	15-60 DEG	ALL SEASONS	L-160
VERT VELOCITY	1.0 MIN	HR-DA	15-60. DEG	ALL SEASONS	
VERT WIND PROF	1 MIN	HR-DA	15-60 DEG	ALL SEASONS	

DISCIPLINE TITLE - SEVERE STORMS
 APPLICATION TITLE - WATERSPOUT PREDICTION & WARNING
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 8.1.1.3

PARAMETER	REFER.	DES ACCUR.	BASED ACCUR.	ACCUR UNITS	LOW HORIZ RESOL	HIGH HORIZ RESOL	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL.	VERT RESOL UNITS	FRESHNESS
CLOUD COVER	L-76				1	1	M	30.	30.	M	NRT
DEW POINT TEMP	L-0				1	1	KM				NRT
VERT HUMIDITY PROF	L-0						M	30	30.		NRT
VERT PRESSURE PROF	L-76	1.	3	MB	1.	1.	KM	30	30.	M	NRT
VERT TEMP PROF	L-76	0.1		C	1.	1.	KM	30.	30	M	NRT
VERT VELOCITY	L-76				1.	1	KM				NRT
VERT WIND PROF	L-76	0.5	0.5	M/S	1.0	1.0	KM	30.	30	M	NRT

DISCIPLINE TITLE - SEVERE STORMS
 APPLICATION TITLE - WATERSPOUT PREDICTION & WARNING
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 8.1.1.3

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
CLOUD COVER	1 MIN		FLORIDA KEY	SPRING-SUMMER	
DEW POINT TEMP	1		FLORIDA KEY	SPRING-SUMMER	
VERT HUMIDITY PROF	1 MIN		FLORIDA KEY	SPRING-SUMMER	
VERT PRESSURE PROF	1 MIN		FLORIDA KEY	SPRING-SUMMER	
VERT TEMP PROF	1 MIN		FLORIDA KEY	SPRING-SUMMER	
VERT VELOCITY	1 MIN		FLORIDA KEY	SPRING-SUMMER	
VERT WIND PROF	1 MIN		FLORIDA KEY	SPRING-SUMMER	

DISCIPLINE TITLE - SEVERE STORMS
 APPLICATION TITLE - FLASH FLOOD WARNING/PREDICTION
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 8.1.1.4

PARAMETER	REFER	DES ACCUR.	BASED ACCUR.	ACCUR. UNITS	LOW HORIZ RESOL.	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL.	VERT RESOL UNITS	FRESHNESS
AIR TEMP	L-0	0.5	1	C	4.	4	KM				4 HR
CLOUD COVER	L-0	1	20	%	4.	4	KM				4 HR
CLOUD TYPE	L-0				4	4.	KM				4 HR
EVAPORATION RATE	L-0	0.5	2.	MM/DA	4.	4					4 HR
FLOOD AREA LOCATION	L-23				4.	4	KM				4 HR
FLOOD LEVEL	L-23				4				4.		4 HR
ICE/SNOW EXTENT	L-23	1.	50	KM	4	4.	KM				4 HR
PRECIP DURATION	L-23										4 HR
PRECIP RATE	L-0	0.5	2.	CM/HR	4.	4.	KM				4 HR
PRECIP TYPE	L-23				4	4	KM				HR
PRECIP WATER PROF	L-0	0.25	0.75	CM/CM2	5	100.	KM				4 HR
SOIL MOISTURE	L-0	0.5	0.5	CC/CC	4.	4	KM				
SOIL TYPE	L-0				4	4	KM				
TOPOGRAPHIC FEATURES	L-23	1.	1.	CM	4.	4	KM				4 HR
VERT HUMIDITY PROF	L-0	1.	30.	%	4.	4	KM	2	2	KM	4 HR

DISCIPLINE TITLE - SEVERE STORMS
 APPLICATION TITLE - FLASH FLOOD WARNING/PREDICTION
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 8.1.1.4

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
AIR TEMP	6 HR	HR-DA	LOCAL LAND AREA	ALL SEASONS	
CLOUD COVER	6 HR	HR-DA	LOCAL LAND AREA	ALL SEASONS	
CLOUD TYPE	6 HR	HR-DA	LOCAL LAND AREA	ALL SEASONS	
EVAPORATION RATE	6 HR	HR-DA	LOCAL LAND AREA	ALL SEASONS	
FLOOD AREA LOCATION	6 HR	HR-DA	LOCAL LAND AREA	ALL SEASONS	L-160
FLOOD LEVEL	6 HR	HR-DA	LOCAL LAND AREA	ALL SEASONS	
ICE/SNOW EXTENT	MO	HR-DA	LOCAL LAND AREA		L-160
PRECIP DURATION	6 HR	HR-DA	LOCAL LAND AREA	ALL SEASONS	L-160
PRECIP RATE	6 HR	HR-DA	LOCAL LAND AREA	ALL SEASONS	
PRECIP TYPE	6 HR	HR-DA	LOCAL LAND AREA	ALL SEASONS	SNOW/HAIL/RAIN
PRECIP WATER PROF	6 HR	HR-DA	LOCAL LAND AREA	ALL SEASONS	
SOIL MOISTURE	MO	HR-DA	LOCAL LAND AREA	ALL SEASONS	L-160
SOIL TYPE	YR	HR-DA	GLOBAL LAND AREA	ALL SEASONS	
TOPOGRAPHIC FEATURES	6 HR	HR-DA	LOCAL LAND AREA	ALL SEASONS	
VERT HUMIDITY PROF	6 HR	HR-DA	LOCAL LAND AREA	ALL SEASONS	

DISCIPLINE TITLE - SEVERE STORMS
 APPLICATION TITLE - LIGHTNING PREDICTION/WARNING
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 8 1.1.5

PARAMETER	REFER.	DES ACCUR	BASD ACCUR	ACCUR. UNITS	LOW HORIZ RESOL.	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL.	VERT RESOL UNITS	FRESHNESS
CLOUD COVER	L-13	1	20	%	4		KM				RT
CLOUD TOP TEMP	L-0	0.1	2	DEG C	4	4.	KM				RT
CLOUD TYPE	L-13				4.	4	KM				RT
ELECTRICITY DISTRIB	L-13			KM	4.	4.					RT
LIGHTNING DENSITY	L-13				4	4	KM				NRT
LIGHTNING FREQUENCY	L-0										RT
LIGHTNING FREQUENCY	L-13				4.	4.					RT
LIGHTNING LOCATION	L-13	5.		KM							RT
PRECIP RATE	L-0	0.5	2	CM/HR	4	4.	KM				RT
STORM DURATION	L-0										RT
STORM INTENSITY	L-13										RT
STORM LOCATION	L-0				4	4.	KM				RT
STORM PATH	L-0			KM	4	4.					RT
VERT PRESSURE PROF	L-0	1.	3.	MB	4.	4.	KM				RT
WATER VAPOR CONTENT	L-0	0.1	1	CM/CM2	4.	4	KM				RT

DISCIPLINE TITLE - SEVERE STORMS
 APPLICATION TITLE - LIGHTNING PREDICTION/WARNING
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 8.1.1.5

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
CLOUD COVER	NRT	4 HR	LOCAL	ALL SEASONS	
CLOUD TOP TEMP	NRT	4 HR	LOCAL	ALL SEASONS	
CLOUD TYPE	NRT	4 HR	LOCAL	ALL SEASONS	
ELECTRICITY DISTRIB	NRT	4 HR	LOCAL	ALL SEASONS	
LIGHTNING DENSITY		4 HR	LOCAL	ALL SEASONS	
LIGHTNING FREQUENCY	NRT	4 HR	LOCAL	ALL SEASONS	
LIGHTNING FREQUENCY	NRT	4 HR	LOCAL	ALL SEASONS	
LIGHTNING LOCATION	NRT	4 HR	LOCAL	ALL SEASONS	
PRECIP RATE	NRT	4 HR	LOCAL	ALL SEASONS	
STORM DURATION	NRT	4 HR	LOCAL	ALL SEASONS	
STORM INTENSITY	NRT	4 HR	LOCAL	ALL SEASONS	
STORM LOCATION	NRT	4 HR	LOCAL	ALL SEASONS	
STORM PATH	NRT	4 HR	LOCAL	ALL SEASONS	
VERT PRESSURE PROF	NRT	4 HR	LOCAL	ALL SEASONS	
WATER VAPOR CONTENT		4 HR	LOCAL	ALL SEASONS	

DISCIPLINE TITLE - SEVERE STORMS
 APPLICATION TITLE - HURRICANE PREDICTION/WARNING
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 8.1.2.2

PARAMETER	REFER.	DES ACCUR	BASED ACCUR	ACCUR UNITS	LOW HORIZ RESOL.	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL.	VERT RESOL UNITS	FRESHNESS
CLOUD COVER	L-28				10	50.	KM				MIN
CLOUD COVER	L-165				5	50.	KM				
CLOUD LATENT HEAT RELEASE	L-165										
CLOUD LEVEL	L-165	250	500.	M	1.	20.	KM	0.5	30	M	
CLOUD PARTICLE SIZE DISTRIB.	L-165				5.	50	KM	5.	60.	M	
CLOUD THICKNESS	L-165	500.	250.	M	1	20.	KM	0.5	30.	M	
CLOUD TOP HEIGHT	L-28	500	500.	M	10	50	KM				MIN
CLOUD TOP TEMP	L-165	0.5	1.	C	5	100.	KM	2.	5	KM	MIN
CLOUD TYPE	L-28				10.	50.	KM				MIN
EVAPORATION RATE	L-165										
EYE LOCATION	L-0				1	10.	KM				MIN
EYE LOCATION	L-0										
EYE PRESSURE	L-0										
MAXIMUM WIND SPEED	L-0										MIN
OCEAN SURFACE PRESSURE	L-0	1.	3	MB	5	100.	KM				MIN
OCEAN SURFACE TEMP	L-165	0.5	1.	C	5	100.	KM				MIN
OCEAN TEMP PROF	L-165										
PRECIP AMOUNT	L-28				10.	50.	KM				MIN
PRECIP EXTENT	L-165				5	50	KM	5.	60.	M	
PRECIP RATE	L-28	0.50		%	10	50.	KM				MIN
PRECIP RATE	L-28				10	50.	KM				MIN
PRECIP RATE	L-165		50.	%	3	50	KM				
PRECIP WATER PROF	L-165	0.25	0.75	CM/CM	25.	100	KM				
PRECIP WATER VAPOR	L-28	0.25		CM	20	100.	KM				MIN
PRECIP WATER VAPOR	L-28	0.25	0.75	CM	5.	50.	KM				MIN
STORM INTENSITY	L-0										MIN
STORM PATH	L-0										MIN
SURFACE TEMP	L-28	1.		C	20	100.	KM	2.	5.	KM	MIN
TEMP PROF	L-28	1		C	40	200.	KM	2.	5.	KM	MIN
TEMP PROF	L-28	1.		C	5.	50	KM				MIN
VERT HUMIDITY PROF	L-28	5.		%	20.	100.	KM	2.	5.	KM	MIN
VERT HUMIDITY PROF	L-28	5.	15	%RH	5.	50.	KM	2	5.	KM	MIN
VERT PRESSURE PROF	L-165										
VERT TEMP PROF	L-165	0.5	1.	C	5.	100.	KM	2.	5	KM	MIN
WIND SPEED	L-28	1		M/SEC	20	50	KM	0.5	1.	KM	MIN
WIND SPEED	L-28	1		M/SEC	40.	150	KM	1.	10.	KM	MIN

DISCIPLINE TITLE - SEVERE STORMS
 APPLICATION TITLE - HURRICANE PREDICTION/WARNING
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 8 1.2.2

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
CLOUD COVER	4 DA	DA-WK	TROP&SUBTROPICAL	SUMMER-FALL	
CLOUD COVER	6 MIN-2 HR	DA-WK	TROP&SUBTROPICAL	SUMMER-FALL	
CLOUD LATENT HEAT RELEASE					
CLOUD LEVEL		DA-WK	TROP&SUBTROPICAL	SUMMER-FALL	
CLOUD PARTICLE SIZE DISTRIB		DA-WK	TROP&SUBTROPICAL	SUMMER-FALL	
CLOUD THICKNESS		DA-WK	TROP&SUBTROPICAL	SUMMER-FALL	
CLOUD TOP HEIGHT	4 DA	DA-WK	TROP&SUBTROPICAL	SUMMER-FALL	
CLOUD TOP TEMP	1 MIN-3 HR	DA-WK	TROP&SUBTROPICAL	SUMMER-FALL	
CLOUD TYPE	4 DA	DA-WK	TROP&SUBTROPICAL	SUMMER-FALL	
EVAPORATION RATE					
EYE LOCATION	4 DA	DA-WK	TROP&SUBTROPICAL	SUMMER-FALL	
EYE LOCATION					
EYE PRESSURE					
MAXIMUM WIND SPEED	4 DA	DA-WK	TROPICAL & SUBTROP	SUMMER-FALL	
OCEAN SURFACE PRESSURE	10 MIN-6 HR	DA-WK	TROP&SUBTROPICAL	SUMMER-FALL	
OCEAN SURFACE TEMP	10 MIN-6 HR	DA-WK	TROP&SUBTROPICAL	SUMMER-FALL	
OCEAN TEMP PROF					
PRECIP AMOUNT	4 DA	DA-WK	TROP&SUBTROPICAL	SUMMER-FALL	
PRECIP EXTENT		DA-WK	TROP&SUBTROPICAL	SUMMER-FALL	
PRECIP RATE	4 DA	DA-WK	TROP&SUBTROPICAL	SUMMER-FALL	
PRECIP RATE	4 DA	DA-WK	TROP&SUBTROPICAL	SUMMER-FALL	
PRECIP RATE	3 MIN-2 HR	DA-WK	TROP&SUBTROPICAL	SUMMER-FALL	
PRECIP WATER PROF	10 MIN-3 HR	DA-WK	TROP&SUBTROPICAL	SUMMER-FALL	
PRECIP WATER VAPOR	4 DA	DA-WK	TROP&SUBTROPICAL	SUMMER-FALL	
PRECIP WATER VAPOR	4 DA	DA-WK	TROP&SUBTROPICAL	SUMMER-FALL	AWAY FROM EYE
STORM INTENSITY	4 DA	DA-WK	TROP&SUBTROPICAL	SUMMER-FALL	
STORM PATH	4 DA	DA-WK	TROP&SUBTROPICAL	SUMMER-FALL	
SURFACE TEMP	4 DA	DA-WK	TROP&SUBTROPICAL	SUMMER-FALL	
TEMP PROF	5 DA	DA-WK	TROP&SUBTROPICAL	SUMMER-FALL	
TEMP PROF	4 DA	DA-WK	TROP&SUBTROPICAL	SUMMER-FALL	AWAY FROM EYE
VERT HUMIDITY PROF	4 DA	DA-WK	TROP&SUBTROPICAL	SUMMER-FALL	AWAY FROM EYE
VERT HUMIDITY PROF	4 DA	DA-WK	TROP&SUBTROPICAL	SUMMER-FALL	AWAY FROM EYE
VERT PRESSURE PROF					
VERT TEMP PROF	1. MIN-3HR	DA-WK	TROP&SUBTROPICAL	SUMMER-FALL	
WIND SPEED	4 DA	DA-WK	TROP&SUBTROPICAL	SUMMER-FALL	
WIND SPEED	4 DA	DA-WK	TROP&SUBTROPICAL	SUMMER-FALL	AT CUMULUS LEVEL ABOVE CUMULUS LEVEL

DISCIPLINE TITLE - SEVERE STORMS
 APPLICATION TITLE - COASTAL FLOODS
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 8 1 2.3

PARAMETER	REFER	DES ACCUR	BASD ACCUR	ACCUR UNITS	LOW HORIZ RESOL.	HIGH HORIZ RESOL	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL	VERT RESOL UNITS	FRESHNESS
ASTRONOMICAL/STORM TIDES	L-162	2.	2.	CM	0.5		KM				MIN
PRECIP RATE	L-162		50	%	3	50	KM				MIN
PRECIP WATER PROF	L-162	0.25	0.75	CM/CM2	5	100.	KM				MIN
SURFACE PRESSURE	L-162	1	3.	MB	1.	10	KM				MIN
SURFACE WIND SPEED	L-0	0.5	1	M/S	5	10	KM				MIN
VERT HUMIDITY PROF	L-162	5.	15	%RH	5	100.	KM	2.	5.	KM	MIN
VERT TEMP PROF	L-162	0.1	0.5	C	1	5.	KM	1	1	KM	MIN

DISCIPLINE TITLE - SEVERE STORMS
 APPLICATION TITLE - COASTAL FLOODS
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 8.1.2.3

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
ASTRONOMICAL/STORM TIDES	10 /DA	HR-WK	COASTAL AREA	STORM DURATION	
PRECIP RATE	3 MIN-2 HR	HR-WK	COASTAL AREA	STORM DURATION	
PRECIP WATER PROF	10 MIN-3 HR	HR-WK	COASTAL REA	STORM DURATION	
SURFACE PRESSURE	2-10/DA	HR-WK	COASTAL AREA	STORM DURATION	
SURFACE WIND SPEED	4 -10/DA	HR-WK	COASTAL AREA	STORM DURATION	
VERT HUMIDITY PROF		HR-WK	COASTAL AREA	STORM DURATION	
VERT TEMP PROF	2-8/DA	HR-WK	COASTAL AREA	STORM DURATION	

DISCIPLINE TITLE - SEVERE STORMS
 APPLICATION TITLE - BLIZZARD FORECASTING
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 8.1.3 1

PARAMETER	REFER.	DES ACCUR.	BASED ACCUR	ACCUR. UNITS	LOW HORIZ RESOL	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL	VERT RESOL UNITS	FRESHNESS
PRECIP AMOUNT	L-0	0.1	0.1				KM				2 HR
SURFACE PRESSURE	L-0	1	3	MB	100.	100	KM				2 HR
SURFACE TEMP	L-0	0.1	1	C	100	100	KM				2 HR
WIND SPEED	L-0				100	100	KM				2 HR

DISCIPLINE TITLE - SEVERE STORMS
APPLICATION TITLE - BLIZZARD FORECASTING
SUBAPPLICATION TITLE - NO TITLE
TREE - 8.1.3.1

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
PRECIP AMOUNT	3/DA	3 DA	30-80 DEG	WINTER-FALL	
SURFACE PRESSURE	3/DA	3 DA	30.-80. DEG	WINTER FALL	
SURFACE TEMP	3/DA	3 DA	30.-80	WINTER-FALL	
WIND SPEED	3/DA	3 DA	30.-80. DEG	WINTER-FALL	

DISCIPLINE TITLE - SEVERE STORMS
 APPLICATION TITLE - CROP FREEZE POTENTIAL ASSESSMENT
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 8 1 3 2 2
 PARAMETER

	REFER.	DES. ACCUR	BASD ACCUR	ACCUR. UNITS	LOW HORIZ RESOL.	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL	HIGH VERT RESOL	VERT RESOL UNITS	FRESHNESS
RELATIVE HUMIDITY	L-1	5		%	50	50	M				MIN
SURFACE TEMP	L-1	0 1	1	C	50	50	M				MIN
TERRAIN TYPE	L-1				50	50	M				
TOPOGRAPHIC FEATURES	L-1	1.	3	CM	50	50.	M				

DISCIPLINE TITLE - SEVERE STORMS
 APPLICATION TITLE - CROP FREEZE POTENTIAL ASSESSMENT
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 8. 1. 3. 2. 2

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
RELATIVE HUMIDITY	1/2 HR	DA-WK	CROP AREA	FALL, WINTER, SPRING	
SURFACE TEMP	1/2 HR	DA-WK	CROP AREA	FALL, WINTER, SPRING	
TERRAIN TYPE	1/SEASON	DA-WK	CROP AREA	FALL, WINTER, SPRING	
TOPOGRAPHIC FEATURES	1/SEASON	DA-WK	CROP AREA	FALL, WINTER, SPRING	

DISCIPLINE TITLE - SEVERE STORMS
 APPLICATION TITLE - ANTECEDENT CONDITION DETERMINATIONS
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 8 2 1 1

PARAMETER	REFER	DES ACCUR	BASD ACCUR	ACCUR. UNITS	LOW HORIZ RESOL.	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL.	VERT RESOL UNITS	FRESHNESS
CLOUD PHASE	L-28	250.		M	5	50	KM				RT
CLOUD TOP HEIGHT	L-28	250.		M	1	20	KM				RT
CLOUD TYPE	L-28	250.		M	10	50	KM				RT
LOWER TROP MOIST GRADIENT	L-28	5		%	3	15	KM				RT
PRECIP AMOUNT	L-28				5	50.	KM				RT
PRECIP RATE	L-28	50		%	5.	50.	KM				RT
PRECIP RATE	L-28				5.	50	KM				RT
PRECIP TYPE	L-28				2.	20	KM				RT
PRECIP TYPE	L-28				20	100.	KM				RT
PRECIP WATER VAPOR	L-28	0.25		CM	20 0	40. 0	KM				RT
SURFACE TEMP	L-28	1.		C	5	25	KM				RT
TEMP PROF	L-28	1.		C	20	100.	KM				RT
VERT HUMIDITY PROF	L-28	5.		%	20	100.	KM	2.	5.	KM	RT
WIND SPEED	L-28	1.	3.	M/SEC	10	40	KM	2.	5	KM	RT
WIND SPEED	L-28	1		N/SEC	20.	100	KM	1. 0	10	KM	RT

DISCIPLINE TITLE - SEVERE STORMS
 APPLICATION TITLE - ANTECEDENT CONDITION DETERMINATIONS
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 8 2.1 1

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
CLOUD PHASE	MIN	HR-DA	LOCAL	ALL SEASONS	
CLOUD TOP HEIGHT	MIN	HR-DA	LOCAL	ALL SEASONS	
CLOUD TYPE	MIN	HR-DA	LOCAL	ALL SEASONS	
LOWER TROP MOIST GRADIENT	MIN	HR-DA	LOCAL	ALL SEASONS	
PRECIP AMOUNT	MIN	HR-DA	LOCAL	ALL SEASONS	
PRECIP RATE	MIN	HR-DA	LOCAL	ALL SEASONS	
PRECIP RATE	MIN	HR-DA	LOCAL	ALL SEASONS	
PRECIP TYPE	MIN	HR-DA	LOCAL	ALL SEASONS	RAIN/HAIL
PRECIP TYPE	MIN	HR-DA	LOCAL	ALL SEASONS	RAIN/HAIL
PRECIP WATER VAPOR	MIN	HR-DA	LOCAL	ALL SEASONS	
SURFACE TEMP	MIN	HR-DA	LOCAL	ALL SEASONS	
TEMP PROF	MIN	HR-DA	LOCAL	ALL SEASONS	
VERT HUMIDITY PROF	MIN	HR-DA	LOCAL	ALL SEASONS	
WIND SPEED	MIN	HR-DA	LOCAL	ALL SEASONS	AT CUMULUS LEVEL
WIND SPEED	MIN	HR-DA	LOCAL	ALL SEASONS	ABOVE CUMULUS LEVEL

DISCIPLINE TITLE - SEVERE STORMS
 APPLICATION TITLE - LOCAL STORM SURGE DETECTION
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 8.2.2.1

PARAMETER	REFER.	DES ACCUR.	BASED ACCUR	ACCUR. UNITS	LOW HORIZ RESOL.	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL.	VERT RESOL UNITS	FRESHNESS
CONVECTIVE INSTABILITY	L-0				100.	100.	M				1/2HR
MOISTURE CONVERGENCE	L-0				100	100.	M				1/2HR
OCEAN WAVE HEIGHT	L-1	0.5		M	5	5	KM				1/2HR
STORM INTENSITY	L-1				2	2	KM				1/2HR
STORM PATH	L-1	2		KM	2.		KM				1/2HR
SURFACE PRESSURE	L-0	1.0	3.	MB							1/2HR
TIDAL PERIOD	L-1										1/2HR
TIDAL RANGE	L-1	2.		M	500	500	M				1/2HR
VERT WIND SHEAR	L-1	0.1		D/CM2	100.	100.		100.	100	M	1/2HR
WIND SPEED	L-0	1.		M/S	100.	100.	M				1/2HR

DISCIPLINE TITLE - SEVERE STORMS
 APPLICATION TITLE - LOCAL STORM SURGE DETECTION
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 8.2 2.1

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
CONVECTIVE INSTABILITY	2HR	DA-WK	LOCAL	DURING STORM	
MOISTURE CONVERGENCE	2HRS	DA-WK	LOCAL	DURING STORM	
OCEAN WAVE HEIGHT	2 HR	DA-WK	LOCAL	DURING STORM	
STORM INTENSITY	2HR	DA-WK	LOCAL	DURING STORM	
STORM PATH	2 HR	DA-WK	LOCAL	DURING STORM	
SURFACE PRESSURE	2HRS	DA-WK	LOCAL	DURING STORM	
TIDAL PERIOD	2HR	DA-WK	LOCAL	DURING STORM	
TIDAL RANGE	2HR	DA-WK	LOCAL	DURING STORM	
VERT WIND SHEAR	2 HR	DA-WK	LOCAL	DURING STORM	
WIND SPEED	2 HR	DA-WK	LOCAL	DURING STORM	

DISCIPLINE TITLE - SEVERE STORMS
 APPLICATION TITLE - LOCAL STORM INTENSITY MEASUREMENT
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 8 2 2.2

PARAMETER	REFER	DES. ACCUR.	BASD ACCUR	ACCUR UNITS	LOW HORIZ RESOL	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL	VERT RESOL UNITS	FRESHNESS
AIR INSTABILITY	L-0				5	5	KM				RT
AIR TEMP	L-1	0.1	1	C	5	5.	KM				RT
CLOUD H2O CONTENT	L-1	0.1	1.	CM/CM2	5	5.	KM				RT
MOISTURE CONVERGENCE	L-0				5	5.	KM				RT
PRECIP AMOUNT	L-0	0.1	0.1	CM/CM2	5	5.	KM				RT
RELATIVE HUMIDITY	L-0	1.	30.	%	5	5.	KM				RT
RELATIVE VORTICITY	L-0				5	5.	KM				RT
SURFACE PRESSURE	L-0	1.	3.	MB	5	5.	KM				RT
VERT VELOCITY	L-0				5	5.	KM	100.	100.	M	RT
WIND SPEED	L-1	1.0	1.0	M/S	5	5.	KM				RT

DISCIPLINE TITLE - SEVERE STORMS
 APPLICATION TITLE - LOCAL STORM INTENSITY MEASUREMENT
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 8.2.2.2

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
AIR INSTABILITY	MIN	DA-WK	LOCAL	ALL SEASONS	
AIR TEMP	MIN	DA-WK	LOCAL	ALL SEASONS	
CLOUD H2O CONTENT	MIN	DA-WK	LOCAL	ALL SEASONS	
MOISTURE CONVERGENCE	MIN	DA-WK	LOCAL	ALL SEASONS	
PRECIP AMOUNT	MIN	DA-WK	LOCAL	ALL SEASONS	
RELATIVE HUMIDITY	MIN	DA-WK	LOCAL	ALL SEASONS	
RELATIVE VORTICITY	MIN	DA-WK	LOCAL	ALL SEASONS	
SURFACE PRESSURE	MIN	DA-WK	LOCAL	ALL SEASONS	
VERT VELOCITY	MIN	DA-WK	LOCAL	ALL SEASONS	
WIND SPEED	MIN	DA-WK	LOCAL	ALL SEASONS	

DISCIPLINE TITLE - SEVERE STORMS
 APPLICATION TITLE - SEVERE STORM DETECTION
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 8 2.2 3

PARAMETER	REFER.	DES ACCUR	BASD ACCUR	ACCUR UNITS	LOW HORIZ RESOL.	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL.	VERT RESOL UNITS	FRESHNESS
CLOUD COVER	L-24	1	20.	%	5	5	KM				RT
CONVECTIVE INSTABILITY	L-24				5	5	KM				NRT
DEW POINT TEMP	L-0	0.5	1	C	5	5	KM				RT
MOISTURE CONVERGENCE	L-0				5	5	KM				NRT
RELATIVE HUMIDITY	L-24	5		%RH	5	5	KM				RT
SURFACE PRESSURE	L-24	1	3	MB	5	5	KM				RT
SURFACE TEMP	L-24	1		C	5	5	KM				RT
VERT TEMP PROF	L-0	0.5	1	C	5	5	KM	2	2	KM	RT
VERT WIND SHEAR	L-24				5	5	KM				NRT
WIND SPEED	L-1	1		M/S	5	5	KM				RT

DISCIPLINE TITLE - SEVERE STORMS
 APPLICATION TITLE - SEVERE STORM DETECTION
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 8 2.2.3

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
CLOUD COVER	MIN	HR-DA	LOCAL	ALL SEASONS	
CONVECTIVE INSTABILITY	MINS	HR-DA	LOCAL	ALL SEASONS	
DEW POINT TEMP	MIN	HR-DA	LOCAL	ALL SEASONS	
MOISTURE CONVERGENCE	MIN	HR-DA	LOCAL	ALL SEASONS	
RELATIVE HUMIDITY	MIN	HR-DA	LOCAL	ALL SEASONS	
SURFACE PRESSURE	MIN	HR-DA	LOCAL	ALL SEASONS	
SURFACE TEMP	MIN	HR-DA	LOCAL	ALL SEASONS	
VERT TEMP PROF	MIN	HR-DA	LOCAL	ALL SEASONS	
VERT WIND SHEAR	MIN	HR-DA	LOCAL	ALL SEASONS	
WIND SPEED	MIN	HR-DA	LOCAL	ALL SEASONS	

DISCIPLINE TITLE - SEVERE STORMS
 APPLICATION TITLE - COURSE CHANGE MODEL VERIFICATION
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 8 3 1.1
 PARAMETER

REFER	DES ACCUR.	BASED ACCUR	ACCUR. UNITS	LOW HORIZ RESOL	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL	HIGH VERT RESOL	VERT RESOL UNITS	FRESHNESS
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DISCIPLINE TITLE - SEVERE STORMS
APPLICATION TITLE - COURSE CHANGE MODEL VERIFICATION
SUBAPPLICATION TITLE - NO TITLE
TREE - 8 3.1.1

PARAMETER

FREQUENCY
OF UPDATE

DURATION

AREAL
COVERAGE

OBSERVATION
TIME

COMMENTS

DISCIPLINE TITLE - SEVERE STORMS
APPLICATION TITLE - STORM INTENSITY MODEL
SUBAPPLICATION TITLE - NO TITLE
TREE - 8.3.1.2

PARAMETER	REFER	DES ACCUR.	BASED ACCUR	ACCUR. UNITS	LOW HORIZ RESOL.	HIGH HORIZ RESOL	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL.	VERT RESOL UNITS	FRESHNESS
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DISCIPLINE TITLE - SEVERE STORMS
APPLICATION TITLE - STORM INTENSITY MODEL
SUBAPPLICATION TITLE - NO TITLE
TREE - 8.3.1.2

PARAMETER

FREQUENCY
OF UPDATE

DURATION

AREAL
COVERAGE

OBSERVATION
TIME

COMMENTS

DISCIPLINE TITLE - SEVERE STORMS
 APPLICATION TITLE - ASSESS OF SEVERE STORM STRUCTURE
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 8 3 1.3

PARAMETER	REFER	DES ACCUR.	BASED ACCUR	ACCUR UNITS	LOW HORIZ RESOL.	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL	HIGH VERT RESOL.	VERT RESOL UNITS	FRESHNESS
CLOUD COVER	L-1	1	1.	%	500	500	M				MIN
CLOUD LEVEL	L-1	250	250	M	100	100	M				MIN
CLOUD THICKNESS	L-1	250.	250.	M	100	100	M				MIN
WIND SPEED	L-1	1	1	M/S	1.	1	KM	2.	2	KM	MIN

DISCIPLINE TITLE - SEVERE STORMS
 APPLICATION TITLE - ASSESS OF SEVERE STORM STRUCTURE
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 8.3.1.3

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
CLOUD COVER	MIN	DA-WK	GLOBAL	ALL SEASONS	
CLOUD LEVEL	MIN	DA-WK	GLOBAL	ALL SEASONS	
CLOUD THICKNESS	MIN	DA-WK	GLOBAL	ALL SEASONS	
WIND SPEED	MIN	DA-WK	GLOBAL	ALL SEASONS	

DISCIPLINE TITLE - SEVERE STORMS
 APPLICATION TITLE - DETERMINATION OF SEVERE STORM INDICES
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 8 3.1.4

PARAMETER	REFER	DES ACCUR.	BASD ACCUR	ACCUR. UNITS	LOW HORIZ RESOL	HIGH HORIZ RESOL	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL	VERT RESOL UNITS	FRESHNESS
AIR TEMP	L-11	1	0.5	C	1	1	KM				3 HR
CLOUD TOP HEIGHT	L-11	250	250	M	1	1	KM				3 HR
PRECIP AMOUNT	L-11	1	25.	%	1	1	KM				3 HR
PRECIP RATE	L-11	10	25	%	1	1	KM				3 HR
RELATIVE HUMIDITY	L-11	5	5	%RH	1	1	KM				3 HR
SURFACE PRESSURE	L-11	1	3	MB	1	1.	KM				3 HR
WIND SPEED	L-11	0.5	1	M/S	1	1.	KM				3 HR

DISCIPLINE TITLE - SEVERE STORMS
 APPLICATION TITLE - DETERMINATION OF SEVERE STORM INDICES
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 8.3.1.4

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
AIR TEMP	1/2HR	DA-WK	GLOBAL	ALL SEASONS	
CLOUD TOP HEIGHT	1/2HR	DA-WK	GLOBAL	ALL SEASONS	
PRECIP AMOUNT	1/2HR	DA-WK	GLOBAL	ALL SEASONS	
PRECIP RATE	1/2HR	DA-WK	GLOBAL	ALL SEASONS	
RELATIVE HUMIDITY	1/2HR	DA-WK	GLOBAL	ALL SEASONS	
SURFACE PRESSURE	1/2HR	DA-WK	GLOBAL	ALL SEASONS	
WIND SPEED	1/2HR	DA-WK	GLOBAL	ALL SEASONS	

DISCIPLINE TITLE - SEVERE STORMS
APPLICATION TITLE - RESEARCH IONOSPHERIC WAVES ASSOC WITH HAIL&TORNADOES
SUBAPPLICATION TITLE - NO TITLE
TREE - 8.3 2.1

[illegible]

DISCIPLINE TITLE - SEVERE STORMS
APPLICATION TITLE - RESEARCH IONOSPHERIC WAVES ASSOC WITH HAIL&TORNADOES
SUBAPPLICATION TITLE - NO TITLE
TREE - 8.3.2.1

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
CLOUD COVER					
CLOUD GROWTH RATE					
CLOUD TOP TEMP					
ELECTRIC FIELD DISTRIB					
GRAVITY WAVES					

DISCIPLINE TITLE - SEVERE STORMS
 APPLICATION TITLE - STORM/ENVIRONMENT INTERACTION ASSESSMENT
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 8.3.2.2

PARAMETER	REFER.	DES ACCUR	BASED ACCUR	ACCUR. UNITS	LOW HORIZ RESOL.	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL	VERT RESOL UNITS	FRESHNESS
AIR TEMP	L-1	1.	2.	C	1	1.	KM				MIN
CLOUD COVER	L-0		20.	%	1.	1.	KM				MIN
PRECIP RATE	L-0	10.	25								MIN
PRECIP TYPE	L-0				1.	1.	KM				MIN
RELATIVE HUMIDITY	L-0	5.		%RH	1	1.	KM				MIN
WATER VAPOR	L-1	10.	50.	MG/CM2	1	1.	KM				MIN
WIND SPEED	L-1	1	3.	M/S	1	1.	KM				MIN

DISCIPLINE TITLE - SEVERE STORMS
 APPLICATION TITLE - STORM/ENVIRONMENT INTERACTION ASSESSMENT
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 8.3.2.2

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
AIR TEMP	5 MIN	DA-WK	GLOBAL	ALL SEASONS	
CLOUD COVER	5 MIN	DA-WK	GLOBAL	ALL SEASONS	
PRECIP RATE	5 MIN	DA-WK	GLOBAL	ALL SEASONS	
PRECIP TYPE	5 MIN	DA-WK	GLOBAL	ALL SEASONS	
RELATIVE HUMIDITY	5 MIN	DA-WK	GLOBAL	ALL SEASONS	
WATER VAPOR	5 MIN	DA-WK	GLOBAL	ALL SEASONS	
WIND SPEED	5 MIN	DA-WK	GLOBAL	ALL SEASONS	

DISCIPLINE TITLE - SEVERE STORMS
 APPLICATION TITLE - CORRELATION BETWEEN LIGHTNING&PRECIP
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 8.3.2.3

PARAMETER	REFER.	DES ACCUR.	BASD ACCUR.	ACCUR. UNITS	LOW HORIZ RESOL.	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL.	VERT RESOL UNITS	FRESHNESS
LIGHTNING FREQUENCY	L-O				1	1	KM				MIN
LIGHTNING SPECTRAL RANGE	L-O				1	1.	KM				MIN
PRECIP EXTENT	L-O				1.	1	KM				MIN
PRECIP RATE	L-O	0 5	2	CM/HR	1	1	KM				MIN
PRECIP TYPE	L-O				1	1.	KM				MIN

DISCIPLINE TITLE - SEVERE STORMS
 APPLICATION TITLE - CORRELATION BETWEEN LIGHTNING&PRECIP
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 8.3.2.3

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
LIGHTNING FREQUENCY	MIN	HR-DA	LOCAL	ALL SEASONS	
LIGHTNING SPECTRAL RANGE	MIN	HR-DA	LOCAL	ALL SEASONS	
PRECIP EXTENT	MIN	HR-DA	LOCAL	ALL SEASONS	
PRECIP RATE	MIN	HR-DA	LOCAL	ALL SEASONS	
PRECIP TYPE	MIN	HR-DA	LOCAL	ALL SEASONS	HAIL/RAIN/SNOW

DISCIPLINE TITLE - SEVERE STORMS
APPLICATION TITLE - CLOUD GROWTH RATE RELATIONSHIP
SUBAPPLICATION TITLE - NO TITLE
TREE - 8.3.3.1

[illegible]

DISCIPLINE TITLE - SEVERE STORMS
APPLICATION TITLE - CLOUD GROWTH RATE RELATIONSHIP
SUBAPPLICATION TITLE - NO TITLE
TREE - 8.3.3.1

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
ANVIL GROWTH					
MAX OVERSHOOTING HEIGHT					
OVERSHOOTING CYCLE					
TEMP LAPSE RATE					
VERT VELOCITY					
VIRTUAL TEMP					

DISCIPLINE TITLE ~ SEVERE STORMS
 APPLICATION TITLE ~ CLOUD PHYSICS
 SUBAPPLICATION TITLE ~ NO TITLE
 TREE ~ 8.3.3.2

PARAMETER	REFER.	DES. ACCUR	BASED ACCUR.	ACCUR. UNITS	LOW HORIZ RESOL	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL	HIGH VERT RESOL.	VERT RESOL UNITS	FRESHNESS
CLOUD LEVEL	L-0	250	500	M	1	10.		0 5	30	M	
CLOUD THICKNESS	L-0	250.	500	M	1.	10	KM	0 5	30.	M	
CLOUD TOP TEMP	L-0	0. 1	0. 50	C	1.	10	KM				
INITIAL UPWARD MOMENTUM	L-28				1.	10	KM				
TOPOGRAPHIC FEATURES	L-28				1.	10	KM				
VERT HUMIDITY PROF	L-28				1	10	KM	100.	200	M	
VERT TEMP PROF	L-28	0 1	0. 5	C	1	10.	KM	100	200.	M	

DISCIPLINE TITLE - SEVERE STORMS
APPLICATION TITLE - CLOUD PHYSICS
SUBAPPLICATION TITLE - NO TITLE
TREE - 8.3.3.2

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
CLOUD LEVEL	MIN		CLOUD COVER AREA		
CLOUD THICKNESS	MIN		CLOUD COVER AREA		
CLOUD TOP TEMP			CLOUD COVER AREA		
INITIAL UPWARD MOMENTUM	MIN		CLOUD COVER AREA		
TOPOGRAPHIC FEATURES	MIN		CLOUD COVERAREA		
VERT HUMIDITY PROF	MIN		CLOUD COVER AREA		
VERT TEMP PROF			CLOUD COVER AREA		

DISCIPLINE TITLE - SEVERE STORMS
 APPLICATION TITLE - LIGHTNING PHYSICS
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 8.3 3.3

PARAMETER	REFER.	DES ACCUR.	BASED ACCUR.	ACCUR UNITS	LOW HORIZ RESOL.	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL	HIGH VERT RESOL	VERT RESOL UNITS	FRESHNESS
CLOUD COVER	L-13	1	20	%							
CLOUD LEVEL	L-0	0005	1	KM	5.	5	KM				
CLOUD THICKNESS	L-0	0005	1	KM	5.	5.	KM				
CLOUD TYPE	L-0				5	5	KM				
FLASH DENSITY	L-13										
FLASH RATE	L-13				5	5	KM				
LIGHTNING DURATION	L-13				5.	5.	KM				
PEAK CURRENTS	L-13				5.	5.	KM				
RISE TIME	L-13				5.	5.	KM				
SEVERE STORM LOC	L-0				5.	5.	KM				
STORM INTENSITY	L-0				5.	5.	KM				
STROKE DURATION	L-13				5.	5.	KM				
STROKE RATE	L-13				5.	5.	KM				
STROKE TYPE	L-0				5.	5.	KM				
WAVE FORM	L-13				5	5	KM				

DISCIPLINE TITLE - SEVERE STORMS
 APPLICATION TITLE - LIGHTNING PHYSICS
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 8.3 3 3

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
CLOUD COVER	MIN	30 MIN	LOCAL	ALL SEASONS	L-160
CLOUD LEVEL	MIN	30 MIN	LOCAL	ALL SEASONS	L-160
CLOUD THICKNESS	MIN	30 MIN	LOCAL	ALL SEASONS	
CLOUD TYPE	MIN	30 MIN	LOCAL	ALL SEASONS	
FLASH DENSITY	MIN	30 MIN	LOCAL	ALL SEASONS	
FLASH RATE	MIN	30 MIN	LOCAL	ALL SEASONS	
LIGHTNING DURATION	MIN	30 MIN	LOCAL	ALL SEASONS	
PEAK CURRENTS	MIN	30 MIN	LOCAL	ALL SEASONS	
RISE TIME	MIN	30 MIN	LOCAL	ALL SEASONS	
SEVERE STORM LOC	MIN	30 MIN	LOCAL	ALL SEASONS	
STORM INTENSITY	MIN	30 MIN	LOCAL	ALL SEASONS	
STROKE DURATION	MIN	30 MIN	LOCAL	ALL SEASONS	
STROKE RATE	MIN	30 MIN	LOCAL	ALL SEASONS	
STROKE TYPE	MIN	30 MIN	LOCAL	ALL SEASONS	
WAVE FORM	MIN	30 MIN	LOCAL	ALL SEASONS	

DISCIPLINE TITLE - SEVERE STORMS
 APPLICATION TITLE - FLOOD DAMAGE ASSESSMENT
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 8.4.1 1

PARAMETER	REFER.	DES ACCUR.	BASD ACCUR	ACCUR UNITS	LOW HORIZ RESOL	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL.	VERT RESOL UNITS	FRESHNESS
EVACUATION AREA	L-23				1	1	KM				2 HR
EVAPORATION RATE	L-0				1	1	KM				2 HR
FLOOD DURATION	L-23										2 HR
FLOOD EXTENT	L-23				1	1	KM				2 HR
FLOOD LEVEL	L-23				1	1	KM				2 HR
INDUSTRY CENTER	L-0				1	1	KM				2 HR
IRRIGATION EXTENT	L-0	20.	50	M	20	50	M				2 HR
PLANT TYPE	L-0				50	100.	KM				2 HR
POPULATION DENSITY	L-23				1		KM				2 HR
TERRAIN TYPE	L-0				1	1	KM				2 HR
TOPOGRAPHIC FEATURES	L-0	1	3.	CM	905	1	KM	1	3.	CM	2 HR
VEGETATIVE COVER TYPE	L-0				50	100.	M				2 HR

DISCIPLINE TITLE - SEVERE STORMS
 APPLICATION TITLE - FLOOD DAMAGE ASSESSMENT
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 8.4.1.1

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
EVACUATION AREA	4/DA	DA-WK	LOCAL	ALL SEASONS	
EVAPORATION RATE	4/DA	DA-WK	LOCAL	ALL SEASONS	L-160
FLOOD DURATION	4/DA	DA-WK	LOCAL	ALL SEASONS	
FLOOD EXTENT	4/DA	DA-WK	LOCAL	ALL SEASONS	
FLOOD LEVEL	4/DA	DA-WK	LOCAL	ALL SEASONS	
INDUSTRY CENTER	11YR	DA-WK	LOCAL	ALL SEASONS	PREFERABLY SUMMER
IRRIGATION EXTENT	WK-YR	DA-WK	LOCAL	ALL SEASONS	
PLANT TYPE	1/SEASON	DA-WK	LOCAL	ALL SEASONS	L-160
POPULATION DENSITY	1/YR	DA-WK	LOCAL	ALL SEASONS	
TERRAIN TYPE	YR	DA-WK	LOCAL	ALL SEASONS	
TOPOGRAPHIC FEATURES	YR	DA-WK	LOCAL	ALL SEASONS	L-160
VEGETATIVE COVER TYPE	1/SEASON	DA-WK	LOCAL	ALL SEASONS	

DISCIPLINE TITLE - SEVERE STORMS
 APPLICATION TITLE - FLOOD WATER MAPPING
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 8. 4. 1. 2

PARAMETER	REFER	DES ACCUR	BASED ACCUR	ACCUR. UNITS	LOW HORIZ RESOL	HIGH HORIZ RESOL	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL.	VERT RESOL UNITS	FRESHNESS
EVAPORATION RATE	L-0	0. 5	2.	MM/DA	0. 02	1	KM				
FLOOD DURATION	L-0										
FLOOD LEVEL	L-0										
PRECIP EXTENT	L-0	10	10	%	5		KM				
PRECIP RATE	L-0	0. 5	2	CM/HR	3	3	KM				
TERRAIN TYPE	L-0	1	3	CM	0. 05	1	KM	1.	3.	CM	

DISCIPLINE TITLE - SEVERE STORMS
 APPLICATION TITLE - FLOOD WATER MAPPING
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 8.4.1.2

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
EVAPORATION RATE	MO	DA-MO	FLOOD AREA	DURING FLOOD	L-160
FLOOD DURATION		DA-MO	FLOOD AREA	DURING FLOOD	
FLOOD LEVEL		DA-MO	FLOOD AREA	DURING FLOOD	
PRECIP EXTENT	MIN-DA	DA-MO	FLOOD AREA	DURING FLOOD	L-160
PRECIP RATE	3 MIN-2 HR	DA-MO	FLOOD AREA	DURING FLOOD	L-160
TERRAIN TYPE	YR	DA-MO	FLOOD AREA	DURING FLOOD	L-160

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DISCIPLINE TITLE - SEVERE STORMS
APPLICATION TITLE - WIND DAMAGE ASSESSMENT
SUBAPPLICATION TITLE - NO TITLE
TREE - B. 4. 2. 1
PARAMETER REFER DES

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PARAMETER	REFER	DES ACCUR	BASED ACCUR.	ACCUR UNITS	LOW HORIZ RESOL	HIGH HORIZ RESOL	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL	VERT RESOL UNITS	FRESHNESS
AIRCRAFT ROUTE	L-0										
AREA DETERMINATION			1.	KM	1	1.	KM				
CLOUD MOVEMENT	L-0		1	KM	1	1	KM				
EVACUATION AREA	L-0		1	KM	1.	1	KM				2 HR
INDUSTRY CENTER	L-0				1	1	KM				
MAXIMUM WIND SPEED	L-0	1	3	M/S	1.	1	KM				2 HR
POPULATION DENSITY	L-0				1	1	KM				
SHIP ROUTE	L-0										
WIND DURATION	L-0		1	HR							2 HR

DISCIPLINE TITLE - SEVERE STORMS
 APPLICATION TITLE - WIND DAMAGE ASSESSMENT
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 8 4.2.1

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
AIRCRAFT ROUTE	6 HR	HR-DA	LOCAL	ALL SEASONS	
AREA DETERMINATION	6 HR	HR-DA	LOCAL	ALL SEASONS	
CLOUD MOVEMENT	6 HR	HR-DA	LOCAL	ALL SEASONS	
EVACUATION AREA	6 HR	HR-DA	LOCAL	ALL SEASONS	
INDUSTRY CENTER	1 YR	HR-DA	LOCAL	ALL SEASONS	
MAXIMUM WIND SPEED	6HR	HR-DA	GLOBAL OR LOCAL	ALL SEASONS	
POPULATION DENSITY	1 YR	HR-DA	LOCAL	ALL SEASONS	
SHIP ROUTE	6 HR	HR-DA	LOCAL	ALL SEASONS	
WIND DURATION	6 HR	HR-DA	LOCAL	ALL SEASONS	

DISCIPLINE TITLE - SEVERE STORMS
 APPLICATION TITLE - AIRCRAFT ROUTING CONSIDERATION
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 8. 5. 1. 1

PARAMETER	REFER	DES ACCUR.	BASD ACCUR.	ACCUR UNITS	LOW HORIZ RESOL	HIGH HORIZ RESOL	HORIZ RES UNITS	LOW VERT RESOL	HIGH VERT RESOL	VERT RESOL UNITS	FRESHNESS
AIR INSTABILITY	L-74				5	50	KM				MIN
CLOUD COVER	L-0	1	20	%	5	50	KM				MIN
DOWNBURST	L-74				5	50	KM				MIN
HORIZONTAL WIND	L-74	1	1.	M/S	5	50	KM				MIN
LOCATION OF JET STREAM	L-0				5	50.	KM				MIN
SURFACE PRESSURE	L-74	1	3	MB	5	50.	KM				MIN
UPBURST	L-74				5	50.	KM				MIN
VERT TEMP PROF	L-0	0 1	2	DEG C	5	50	KM	2	2.	KM	MIN
VERT WIND PROF	L-74	1.	3.	M/S	5	50	KM	2	2.	KM	MIN

DISCIPLINE TITLE - SEVERE STORMS
 APPLICATION TITLE - AIRCRAFT ROUTING CONSIDERATION
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 8.5 1.1

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
AIR INSTABILITY	MIN	HR-WK	LOCAL	ALL SEASONS	
CLOUD COVER	MIN		LOCAL	ALL SEASONS	
DOWNBURST	MIN	HR-WK	LOCAL	ALL SEASONS	HR-WK
HORIZONTAL WIND	MIN	HR/WK	GLOBAL OR LOCAL	ALL SEASONS	
LOCATION OF JET STREAM	MIN	HR-WK	LOCAL	ALL SEASONS	
SURFACE PRESSURE	MIN	HR-WK	LOCAL	ALL SEASONS	
UPBURST	MIN	HR-WK	LOCAL	ALL SEASONS	
VERT TEMP PROF	MIN	HR-WK	LOCAL	ALL SEASONS	
VERT WIND PROF	MIN	HR-WK	LOCAL	ALL SEASONS	

DISCIPLINE TITLE - SEVERE STORMS
 APPLICATION TITLE - WARNING AND EVACUATION SCHEMES
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 8.5 2.1

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
AIRCRAFT LOCATION	HR-DA			.	L-160
INDUSTRY CENTER					
POPULATION DENSITY					
RESCUE CENTER					
SHIP LOCATION	HR-DA				L-160
STORM DURATION					
STORM EXTENT					
STORM INTENSITY					
STORM PATH					
STORM TYPE					

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DISCIPLINE TITLE - SEVERE STORMS
APPLICATION TITLE - RECOVERY/AID PROCEDURE DEVELOPMENT
SUBAPPLICATION TITLE - NO TITLE
TREE - 8 5 2 2
PARAMETER REFER DES BASED
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DISCIPLINE TITLE - SEVERE STORMS
 APPLICATION TITLE - RECOVERY/AID PROCEDURE DEVELOPMENT
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 8.5 2 2
 PARAMETER

FREQUENCY
 OF UPDATE

DURATION

AREAL
 COVERAGE

OBSERVATION
 TIME

COMMENTS

DAMAGE LEVEL
 DAMAGE LEVEL
 DAMAGE LEVEL
 DISASTER AREA LOCATION
 LAND COVER TYPE
 STORM TYPE

AGRICULTURAL
 RESIDENTIAL
 COMMERCIAL
 RESCUE CENTER

DISCIPLINE TITLE - SEVERE STORMS
APPLICATION TITLE - NEW PREDICTION MODEL DEVELOPMENT
SUBAPPLICATION TITLE - NO TITLE
TREE - 8 5.3.2
PARAMETER

REFER	DES ACCUR.	BASED ACCUR	ACCUR UNITS	LOW HORIZ RESOL.	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL	VERT RESOL UNITS	FRESHNESS
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DISCIPLINE TITLE - SEVERE STORMS
APPLICATION TITLE - NEW PREDICTION MODEL DEVELOPMENT
SUBAPPLICATION TITLE - NO TITLE
TREE - B. 5. 3. 2

PARAMETER

FREQUENCY
OF UPDATE

DURATION

AREAL
COVERAGE

OBSERVATION
TIME

COMMENTS

DISCIPLINE TITLE - SEVERE STORMS
APPLICATION TITLE - NEW INSTRUMENT DEVELOPMENT
SUBAPPLICATION TITLE - NO TITLE
TREE - B 5 3.3
PARAMETER

REFER	DES ACCUR	BASD ACCUR	ACCUR UNITS	LOW HORIZ RESOL	HIGH HORIZ RESOL	HORIZ RES UNITS	LOW VERT RESOL	HIGH VERT RESOL	VERT RESOL UNITS	FRESHNESS
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DISCIPLINE TITLE - SEVERE STORMS
APPLICATION TITLE - NEW INSTRUMENT DEVELOPMENT
SUBAPPLICATION TITLE - NO TITLE
TREE - 8 5.3.3
PARAMETER

FREQUENCY
OF UPDATE

DURATION

AREAL
COVERAGE

OBSERVATION
TIME

COMMENTS

DISCIPLINE TITLE - SEVERE STORMS
APPLICATION TITLE - NOWCASTING DEVELOPMENT
SUBAPPLICATION TITLE - NO TITLE
TREE - 8 5.3.4
PARAMETER

REFER	DES ACCUR.	BASIS ACCUR.	ACCUR. UNITS	LOW HORIZ RESOL.	HIGH HORIZ RESOL	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL	VERT RESOL UNITS	FRESHNESS
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DISCIPLINE TITLE - SEVERE STORMS
APPLICATION TITLE - NOWCASTING DEVELOPMENT
SUBAPPLICATION TITLE - NO TITLE
TREE - 8 5.3.4
PARAMETER

FREQUENCY
OF UPDATE

DURATION

AREAL
COVERAGE

OBSERVATION
TIME

COMMENTS

DISCIPLINE TITLE - SEVERE STORMS
 APPLICATION TITLE - REDUCING LIGHTNING
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 8.5.4 1

PARAMETER	REFER	DES ACCUR.	BASD ACCUR	ACCUR UNITS	LOW HORIZ RESOL.	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL	VERT RESOL UNITS	FRESHNESS
CLOUD COVER	L-0	1	20	%	4	4.	KM				
LIGHTNING DURATION	L-0										
LIGHTNING FREQUENCY	L-0										
PRECIP WATER PROF	L-0	0.25	0.75	CM/CM2	4	4	KM				
STORM INTENSITY	L-0				4.	4	KM				
STORM PATH	L-0				4	4	KM				

DISCIPLINE TITLE - SEVERE STORMS
APPLICATION TITLE - REDUCING LIGHTNING
SUBAPPLICATION TITLE - NO TITLE
TREE - 8.5.4.1

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
CLOUD COVER	MIN		LIGHTNING AREA		
LIGHTNING DURATION	MIN		LIGHTNING AREA		
LIGHTNING FREQUENCY	MIN		LIGHTNING AREA		
PRECIP WATER PROF	MIN		LIGHTNING AREA	MIN	
STORM INTENSITY	MIN		LIGHTNING AREA		
STORM PATH	MIN		LIGHTNING AREA		

DISCIPLINE TITLE - SEVERE STORMS
 APPLICATION TITLE - DECREASING HAIL
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 8.5.4.2

PARAMETER	REFER	DES. ACCUR.	BASD ACCUR	ACCUR. UNITS	LOW HORIZ RESOL	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL	VERT RESOL UNITS	FRESHNESS
CLOUD COVER	L-0	1.	20	%	0 5	10.	KM				
CLOUD LATENT HEAT RELEASE	L-0										
CLOUD PARTICLE SIZE DISTRIB	L-0										
CLOUD TOP TEMP	L-0	0.1	2.0	DEG C	1	10					
VERT TEMP PROF	L-0	0.1	2	DEG C	1.	10.	KM	0 03	5	KM	

DISCIPLINE TITLE - SEVERE STORMS
 APPLICATION TITLE - DECREASING HAIL
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 8.9.4.2

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
CLOUD COVER	MIN		LOCAL STORM AREA		L-160
CLOUD LATENT HEAT RELEASE			LOCAL STORM AREA		
CLOUD PARTICLE SIZE DISTRIB			LOCAL STORM AREA		
CLOUD TOP TEMP	MIN		LOCAL STORM AREA		L-160
VERT TEMP PROF	MIN		LOCAL STORM AREA		L-160

DISCIPLINE TITLE - SEVERE STORMS
 APPLICATION TITLE - REDUCING INTENSITY OF HURRICANES
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 8.5 4.3

PARAMETER	REFER.	DES. ACCUR.	BASED ACCUR	ACCUR UNITS	LOW HORIZ RESOL.	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL.	VERT RESOL UNITS	FRESHNESS
CLOUD COVER	L-0	1	20.	%	0.5	200.	KM				
CLOUD LEVEL	L-0	0.5	1.	KM	5	200.	KM	0.0005	1.	KM	
CLOUD THICKNESS	L-0	0.5	1	M	5	200.	KM	0.0005	1	KM	
PRECIP AMOUNT	L-0	0.2	0.1	CM/CM2	5	200.					
PRECIP EXTENT	L-0	10	10	%	5	200.	KM				
PRECIP RATE	L-0	0.5	2	C/HR	3	200.	KM				
PRECIP WATER PROF	L-0	0.1	1	CM/CM2	0.5	200.	KM	30.	300.	KM	
SURFACE PRESSURE	L-0	1	3.	MB	1	200.	KM				
VERT HUMIDITY PROF	L-0	1	30.	%	5	200.	KM	0.03	5	KM	
VERT PRESSURE PROF	L-0	1	3	MB	1	200.	KM	1	5	KM	
VERT TEMP PROF	L-0	0.5	1	DEG C	5	200.	KM	0.03	5	KM	
VERT WIND PROF	L-0	1.	3.	MB	5.	200.	KM	0.5	5.	KM	

DISCIPLINE TITLE - SEVERE STORMS
 APPLICATION TITLE - REDUCING INTENSITY OF HURRICANES
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 8.5.4.3

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
CLOUD COVER	MIN-DA		HURRICANE AREA		L-160
CLOUD LEVEL	3-12 HR		HURRICANE AREA		L-160
CLOUD THICKNESS	3-12 HR		HURRICANE AREA		L-160
PRECIP AMOUNT					
PRECIP EXTENT	MIN-2/DA		HURRICANE AREA		L-160
PRECIP RATE	MIN-DA		HURRICANE AREA		L-160
PRECIP WATER PROF	MIN-2/DA		HURRICANE AREA		L-160
SURFACE PRESSURE	3 HR-DA		HURRICANE AREA		L-160, AT EYE
VERT HUMIDITY PROF	MIN-DA		HURRICANE AREA		L-160
VERT PRESSURE PROF	3 HR-DA		HURRICANE AREA		L-160
VERT TEMP PROF	MIN-DA		HURRICANE AREA		L-160
VERT WIND PROF	MIN-DA		HURRICANE AREA		L-160

Global Weather Applications
Data Sheets

```
DISCIPLINE TITLE - GLOBAL WEATHER
APPLICATION TITLE - WEATHER FORECASTS
SUBAPPLICATION TITLE - LARGE SCALE WEATHER FORECASTS
TREE - 9 1.1.1.1
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[illegible]

DISCIPLINE TITLE - GLOBAL WEATHER
 APPLICATION TITLE - WEATHER FORECASTS
 SUBAPPLICATION TITLE - LARGE SCALE WEATHER FORECASTS
 TREE - 9.1.1.1 1

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
CLOUD COVER					
CLOUD LATENT HEAT RELEASE					
CLOUD LEVEL					
CLOUD PARTICLE SIZE DISTRIB					
CLOUD THICKNESS					
CLOUD TOP TEMP	6-12 HR				
CLOUD/ATMOS ALBEDO					
EQ-TO-POLE RADIATION GRAD					
EVAPORATION RATE					
EVAPOTRANSPIRATION					
ICE/SNOW SURFACE TEMP					
IONOS TEMP PROF	DA				
LAND ALBEDO					
LAND SURFACE TEMP					
NET RADIATION					REGIONAL
OCEAN SURFACE PRESSURE	6-12 HR				
OCEAN SURFACE WIND DIR	6-12 HR				
OCEAN SURFACE WIND SPEED	6-12 HR				
OCEAN TEMP PROF					
PRECIP AMOUNT					
PRECIP EXTENT					
PRECIP FORM					
PRECIP RATE	2-12 HR				
PRECIP WATER PROF	12 HR				
SEA SURFACE TEMP	24 HR				
SENSIBLE HEAT FLUX					OCEAN
SOLAR CONSTANT					
SOLAR FLUX					
SURFACE AIR TEMP	12 HR				
UPPER OCEAN HEAT STORAGE					
VERT HUMIDITY PROF					
VERT PRESSURE PROF					
VERT TEMP PROF	6-12 HR				
VERT WIND CONVECT DUCTS LOC					
VERT WIND CONVECT DUCTS SIZE					
VERT WIND PROF					
VISIBILITY					FOG/MIST
WATER ALBEDO					

```
DISCIPLINE TITLE - GLOBAL WEATHER
APPLICATION TITLE - WEATHER FORECASTS
SUBAPPLICATION TITLE - SMALL SCALE WEATHER FORECASTS
TREE - 9 1 1.1.2
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[illegible]

DISCIPLINE TITLE - GLOBAL WEATHER
 APPLICATION TITLE - WEATHER FORECASTS
 SUBAPPLICATION TITLE - SMALL SCALE WEATHER FORECASTS
 TREE - 9.1 1.1.2

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
CLOUD COVER					
CLOUD LEVEL					
CLOUD PARTICLE SIZE DISTRIB					
CLOUD THICKNESS					
CLOUD TOP TEMP	3-12 HR				
CLOUD/ATMOS ALBEDO					
ICE/SNOW SURFACE TEMP					
IONOS TEMP PROF					
LAND ALBEDO					
LAND SURFACE TEMP					
OCEAN SURFACE PRESSURE	2-12 HR				
OCEAN SURFACE WIND DIR	2-6 HR				
OCEAN SURFACE WIND SPEED	2-6 HR				
OCEAN TEMP PROF					
PRECIP AMOUNT					
PRECIP EXTENT					
PRECIP RATE	2-12 HR				
PRECIP TYPE					
PRECIP WATER PROF	2-12 HR				
SEA SURFACE TEMP	12 HR				
SURFACE AIR TEMP	2-12 HR				
VERT HUMIDITY PROF					
VERT PRESSURE PROF					
VERT TEMP PROF	3-12 HR				
VERT WIND CONVECT DUCTS LOC					
VERT WIND CONVECT DUCTS SIZE					
VISIBILITY					FOG/MIST
WATER ALBEDO					

DISCIPLINE TITLE - GLOBAL WEATHER
APPLICATION TITLE - SEVERE STORM WARNINGS AND FORECASTS
SUBAPPLICATION TITLE - NO TITLE
TREE - 9.1.4.1

[illegible]

DISCIPLINE TITLE - GLOBAL WEATHER
 APPLICATION TITLE - SEVERE STORM WARNINGS AND FORECASTS
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 9.1.4.1

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
CLOUD COVER	6 MIN-2 HR				
CLOUD LATENT HEAT RELEASE					
CLOUD PARTICLE SIZE DISTRIB	5-60 MIN				
CLOUD THICKNESS	0.5-30MIN				
CLOUD TOP TEMP	MIN-3 HR				
CLOUD/ATMOS ALBEDO					
EVAPORATION RATE					
ICE/SNOW SURFACE TEMP	10 MIN-6 HR				
LAND SURFACE TEMP	10 MIN-6 HR				
LIGHTNING FREQUENCY					
LIGHTNING LOCATION					
OCEAN SURFACE PRESSURE					
OCEAN SURFACE WIND DIR					
OCEAN SURFACE WIND SPEED					
OCEAN TEMP PROF					
PRECIP AMOUNT	5-60MIN				
PRECIP EXTENT	3 MIN-2 HR				
PRECIP RATE	2 MIN-2 HR				
PRECIP TYPE	10 MIN-3 HR				RAIN, HAIL, SNOW
PRECIP WATER PROF					
SURFACE AIR TEMP					
SURFACE WATER TEMP	10 MIN-6 HR				
VERT HUMIDITY PROF	1 MIN-3 HR				
VERT PRESSURE PROF					
VERT TEMP PROF	MIN-3 HR				
VERT TEMP PROF					ICE/SNOW
VERT WIND CONVECT DUCTS LOC					
VERT WIND CONVECT DUCTS SIZE					
VERT WIND PROF	5 MIN-3 HR				
VISIBILITY					FOG/MIST
WATER ALBEDO					

DISCIPLINE TITLE - GLOBAL WEATHER
 APPLICATION TITLE - FOREST FIRE WEATHER
 SUBAPPLICATION TITLE - NAT FIRE DANGER RATING SYSTEM
 TREE - 9.1 5 1 1

PARAMETER	REFER	DES ACCUR.	BASED ACCUR	ACCUR UNITS	LOW HORIZ RESOL	HIGH HORIZ RESOL	HORIZ RES UNITS	LOW VERT RESOL	HIGH VERT RESOL.	VERT RESOL UNITS	FRESHNESS
AIR TEMP	L-71				1	9	KM				1 HR
CLOUD COVER	L-71				1	9.	KM				1 HR
FUEL MOISTURE	L-71				1	9.	KM				1 HR
PRECIP AMOUNT	L-71				1	9.	KM				1 HR
RELATIVE HUMIDITY	L-71				1	9.	KM				1 HR
SURFACE WIND SPEED	L-71				1	9.	KM				1 HR

DISCIPLINE TITLE - GLOBAL WEATHER
 APPLICATION TITLE - FOREST FIRE WEATHER
 SUBAPPLICATION TITLE - NAT FIRE DANGER RATING SYSTEM
 TREE - 9.1.5.1.1

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
AIR TEMP	1 HR	10DA	50N-18S/25W-135W		
CLOUD COVER	1 HR	10DAYS	50N-18S/25W-135W		
FUEL MOISTURE	1 HR	10DA	50N-18S/25W-135W		
PRECIP AMOUNT	1 HR	10DA	50N-18S/25W-135W		
RELATIVE HUMIDITY	1 HR	10DA	50N-18S/25W-135W		
SURFACE WIND SPEED	1 HR	10DA	50N-18S/25W-135W		

DISCIPLINE TITLE - GLOBAL WEATHER
 APPLICATION TITLE - FOREST FIRE WEATHER
 SUBAPPLICATION TITLE - LIGHTNING-CAUSED FIRE IGNITIONS
 TREE - 9.1.5.1.2

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
AIR TEMP	1 HR	HR	150X150KM	LIGHTNING	
CLOUD MOVEMENT	1 HR	HR	150X150KM	LIGHTNING	
FUEL MOISTURE	1 HR	HR	150X150KM	LIGHTNING	
LIGHTNING DURATION	1 HR	HR	150X150KM	LIGHTNING	
LIGHTNING FREQUENCY	1 HR	HR	150X150KM	LIGHTNING	
LIGHTNING LOCATION	1 HR	HR	150X150KM	LIGHTNING	
PRECIP DURATION	1 HR	HR	150X150KM	LIGHTNING	
RELATIVE HUMIDITY	1 HR	HR	150X150KM	LIGHTNING	
STORM DURATION	1 HR	HR	150X150KM	LIGHTNING	
STORM EXTENT	1 HR	HR	150X150KM	LIGHTNING	
STORM PATH	1 HR	HR	150X150KM	LIGHTNING	
SURFACE WIND SPEED	1 HR	HR	150X150KM	LIGHTNING	

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DISCIPLINE TITLE - GLOBAL WEATHER
APPLICATION TITLE - AIRCRAFT ROUTING
SUBAPPLICATION TITLE - JETSTREAMS PREDICTION
TREE - 9 1.5 3 1
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PARAMETER	REFR	DES ACCUR.	BASED ACCUR	ACCUR UNITS	LOW HORIZ RESOL	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL	HIGH VERT RESOL	VERT RESOL UNITS	FRESHNESS
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AIR TEMP	L-62
CLOUD COVER	L-62
ISENTROPE TROUGH AMP	L-62
ISENTROPE TROUGH LOC	L-62
JETSTREAM LOCATION	L-62
MAXIMUM WIND SPEED	L-62

DISCIPLINE TITLE - GLOBAL WEATHER
APPLICATION TITLE - AIRCRAFT ROUTING
SUBAPPLICATION TITLE - JETSTREAMS PREDICTION
TREE - 9 1.5.3.1

PARAMETER

FREQUENCY
OF UPDATE

DURATION

AREAL
COVERAGE

OBSERVATION
TIME

COMMENTS

AIR TEMP
CLOUD COVER
ISENTROPE TROUGH AMP
ISENTROPE TROUGH LOC
JETSTREAM LOCATION
MAXIMUM WIND SPEED

```
DISCIPLINE TITLE - GLOBAL WEATHER
APPLICATION TITLE - AIRCRAFT ROUTING
SUBAPPLICATION TITLE - CLEAR AIR TURBULENCE PREDICTION
TREE - 9 1 5 3 2
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[illegible]

DISCIPLINE TITLE - GLOBAL WEATHER
APPLICATION TITLE - AIRCRAFT ROUTING
SUBAPPLICATION TITLE - CLEAR AIR TURBULENCE PREDICTION
TREE - 9 1 S.3.2

PARAMETER

FREQUENCY
OF UPDATE

DURATION

AREAL
COVERAGE

OBSERVATION
TIME

COMMENTS

AIR INSTABILITY
CLOUD COVER
CLOUD TYPE
CYCLONE LOCATION
ISENTROPE TROUGH AMP
ISENTROPE TROUGH LOC
JETSTREAM LOCATION
TOPOGRAPHIC FEATURES
VERT TEMP PROF
VERT WIND SHEAR
WIND SPEED

DISCIPLINE TITLE - GLOBAL WEATHER
APPLICATION TITLE - AIR QUALITY
SUBAPPLICATION TITLE - TROPOSPHERIC CONTAMINATION
TREE - 9.1 5.4.1

[illegible]

DISCIPLINE TITLE - GLOBAL WEATHER
 APPLICATION TITLE - AIR QUALITY
 SUBAPPLICATION TITLE - TROPOSPHERIC CONTAMINATION
 TREE - 9.1.5.4.1

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
AEROSOLS	24 HR		GLOBAL	ALL SEASONS	
CFXCLY			GLOBAL	ALL SEASONS	
CH4	24 HR		GLOBAL	ALL SEASONS	
CLOUD COVER	72 HR		GLOBAL	ALL SEASONS	
CLOUD LEVEL			GLOBAL	ALL SEASONS	
CLOUD PARTICLE SIZE DISTRIB			GLOBAL	ALL SEASONS	
CLOUD TOP TEMP			GLOBAL	ALL SEASONS	
CLOUD/ATMOS ALBEDO			GLOBAL	ALL SEASONS	
CO	24 HR		GLOBAL	ALL SEASONS	
CO2	24 HR		GLOBAL	ALL SEASONS	
CXHY	24 HR		GLOBAL	ALL SEASONS	
CXHYCL2	24 HR		GLOBAL	ALL SEASONS	
H6			GLOBAL	ALL SEASONS	
H2CO			GLOBAL	ALL SEASONS	
H2O	24 HR		GLOBAL	ALL SEASONS	ACC 0.5PPM OR 20%
H2S	24 HR		GLOBAL	ALL SEASONS	
NH3	24 HR		GLOBAL	ALL SEASONS	
NO	24 HR		GLOBAL	ALL SEASONS	
NO2	24 HR		GLOBAL	ALL SEASONS	
N2O			GLOBAL	ALL SEASONS	
OCEAN SURFACE PRESSURE			GLOBAL	ALL SEASONS	
OCEAN SURFACE WIND DIR	6 HR		GLOBAL	ALL SEASONS	
OCEAN SURFACE WIND SPEED	6 HR		GLOBAL	ALL SEASONS	
OZONE	24 HR		GLOBAL	ALL SEASONS	ACC 1-10PPB OR 25%
P8			GLOBAL	ALL SEASONS	
PRECIP EXTENT			GLOBAL	ALL SEASONS	
PRECIP RATE			GLOBAL	ALL SEASONS	
PRECIP TYPE			GLOBAL	ALL SEASONS	
PRECIP WATER PROF			GLOBAL	ALL SEASONS	
SO2	24 HR		GLOBAL	ALL SEASONS	
THERMAL ANOMALIES			GLOBAL	ALL SEASONS	
VERT HUMIDITY PROF			GLOBAL	ALL SEASONS	
VERT PRESSURE PROF			GLOBAL	ALL SEASONS	
VERT TEMP PROF	24 HR		GLOBAL	ALL SEASONS	
VERT WIND CONVECT DUCTS LOC			GLOBAL	ALL SEASONS	
VERT WIND CONVECT DUCTS SIZE			GLOBAL	ALL SEASONS	
VERT WIND PROF			GLOBAL	ALL SEASONS	

DISCIPLINE TITLE - GLOBAL WEATHER
APPLICATION TITLE - AIR QUALITY
SUBAPPLICATION TITLE - STRATOSPHERIC CONTAMINATION
TREE - 9 1.5.4 2

[illegible]

DISCIPLINE TITLE - GLOBAL WEATHER
 APPLICATION TITLE - AIR QUALITY
 SUBAPPLICATION TITLE - STRATOSPHERIC CONTAMINATION
 TREE - 9 1. 5. 4. 2

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
AEROSOLS	24 HR		GLOBAL/LOCAL	ALL SEASONS	
CFXCLY	24 HR		GLOBAL/LOCAL	ALL SEASONS	ACC 5-75%
CH4	24 HR		GLOBAL/LOCAL	ALL SEASONS	VERT RES COLUMN
CLO	24 HR		GLOBAL/LOCAL	ALL SEASONS	
CLOUD TOP TEMP	24 HR		GLOBAL/LOCAL	ALL SEASONS	
CL2			GLOBAL/LOCAL	ALL SEASON	
CXHY	24 HR		GLOBAL/LOCAL	ALL SEASONS	
CXHYCL2	24 HR		GLOBAL/LOCAL	ALL SEASONS	VERT COL
F2			GLOBAL/LOCAL	ALL SEASONS	
HCL	24 HR		GLOBAL/LOCAL	ALL SEASONS	VERT RES COLUMN
HF	24 HR		GLOBAL/LOCAL	ALL SEASONS	VERT RES COLUMN
HNO3	24 HR		GLOBAL/LOCAL	ALL SEASONS	
H2O	24 HR		GLOBAL/LOCAL	ALL SEASONS	
IONOS TEMP PROF			GLOBAL/LOCAL	ALL SEASONS	
NH3	24 HR		GLOBAL/LOCAL	ALL SEASONS	
NO	24 HR		GLOBAL/LOCAL	ALL SEASONS	
NO2	24 HR		GLOBAL/LOCAL	ALL SEASONS	ACC 10-100PPB
N2O	24 HR		GLOBAL/LOCAL	ALL SEASONS	ACC 10-100PPB
O	24 HR		GLOBAL/LOCAL	ALL SEASONS	
OH	24 HR		GLOBAL/LOCAL	ALL SEASONS	
OZONE	24 HR		GLOBAL/LOCAL	ALL SEASONS	
VERT HUMIDITY PROF			GLOBAL/LOCAL	ALL SEASONS	
VERT PRESSURE PROF			GLOBAL/LOCAL	ALL SEASONS	
VERT TEMP PROF	24 HR		GLOBAL/LOCAL	ALL SEASONS	
VERT WIND CONVECT DUCTS LOC			GLOBAL/LOCAL	ALL SEASONS	
VERT WIND CONVECT DUCTS SIZE			GLOBAL/LOCAL	ALL SEASONS	
VERT WIND PROF			GLOBAL/LOCAL	ALL SEASONS	

DISCIPLINE TITLE - GLOBAL WEATHER
 APPLICATION TITLE - ATMOS THERMAL BALANCE ASSESSMENT
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 9.2.1.1

PARAMETER	REFER.	DES ACCUR.	BASED ACCUR.	ACCUR UNITS	LOW HORIZ RESOL.	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL.	VERT RESOL UNITS	FRESHNESS
CLOUD COVER	L-1	10		%	5	5	KM				30MN
CLOUD TOP TEMP	L-1	.1	.25	DEG C	1	25	KM				30MN
CLOUD/ATMOS ALBEDO	L-1	.2		%	10	100	KM				30MN
LAND SURFACE TEMP	L-0	.1		DEG C	100	200	KM				30 MIN
LAND SURFACE TEMP	L-1										
LATENT HEAT	L-0				100	200	KM				30MIN
SEA SURFACE TEMP	L-1	.5		DEG C	5	5	KM				30MIN
SENSIBLE HEAT FLUX	L-0				100	200	KM				30MN
SURFACE AIR TEMP	L-1	1		DEG C	1	100	KM				30MN
SURFACE WATER TEMP	L-1	.1		DEG C	200	200	KM				30MN
TOPOGRAPHIC FEATURES	L-0	100		KM	5	5	KM				30MN
VERT HUMIDITY PROF	L-0	5		%	1	5	KM	2	2	KM	30MN
VERT TEMP PROF	L-1	.25		DEG C	1	5	KM	2	2	KM	30MN
WATER ALBEDO	L-0	.2		%	10	100	KM				30MIN

DISCIPLINE TITLE - GLOBAL WEATHER
 APPLICATION TITLE - ATMOS THERMAL BALANCE ASSESSMENT
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 9 2.1.1

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
CLOUD COVER	DA	WK-MON	GLOBAL	ALL SEASONS	
CLOUD TOP TEMP	2-4/DA	WK-MON	GLOBAL	ALL SEASONS	
CLOUD/ATMOS ALBEDO	DA	WK-MON	GLOBAL	ALL SEASONS	
LAND SURFACE TEMP			GLOBAL	ALL SEASONS	
LAND SURFACE TEMP	2-4/DA	WK-MON			
LATENT HEAT	DA	WK-MON	GLOBAL	ALL SEASONS	
SEA SURFACE TEMP	2/DA	WK-MON	GLOBAL	ALL SEASONS	
SENSIBLE HEAT FLUX	DA	WK-MON	GLOBAL	ALL SEASONS	
SURFACE AIR TEMP	2/DA	WK-MON	GLOBAL	ALL SEASONS	
SURFACE WATER TEMP	DA	WK-MON	GLOBAL	ALL SEASONS	
TOPOGRAPHIC FEATURES	DA	WK-MON	GLOBAL	ALL SEASONS	
VERT HUMIDITY PROF	2-4/DA	WK-MON	GLOBAL	ALL SEASONS	
VERT TEMP PROF	2-4/DA	WK-MON	GLOBAL	ALL SEASONS	
WATER ALBEDO	DA	WK-MON	GLOBAL	ALL SEASONS	

DISCIPLINE TITLE - GLOBAL WEATHER
 APPLICATION TITLE - GLOBAL THERMAL BALANCE
 SUBAPPLICATION TITLE - SPACE THERMAL BALANCE
 TREE - 9 2 1 1 1

PARAMETER	REFER.	DES ACCUR.	BASED ACCUR.	ACCUR. UNITS	LOW HORIZ RESOL	HIGH HORIZ RESOL	HORIZ RES UNITS	LOW VERT RESOL	HIGH VERT RESOL.	VERT RESOL UNITS	FRESHNESS
IONOS TEMP PROF	L-0	.5	3	DEG C	500.	500	KM	1	10.	KM	
NET RADIATION	L-0	2	25.	W/CM2							
SOLAR CONSTANT	L-0	1.5	5.	W/CM2							

DISCIPLINE TITLE - GLOBAL WEATHER
 APPLICATION TITLE - GLOBAL THERMAL BALANCE
 SUBAPPLICATION TITLE - SPACE THERMAL BALANCE
 TREE - 9 2.1.1.1
 PARAMETER

FREQUENCY
 OF UPDATE

DURATION

AREAL
 COVERAGE

OBSERVATION
 TIME

COMMENTS

IONOS TEMP PROF
 NET RADIATION
 SOLAR CONSTANT

DA
 DA
 DA

GLOBAL
 GLOBAL
 GLOBAL

ALL SEASONS
 ALL SEASONS
 ALL SEASONS

L-160
 L-160
 L-160

DISCIPLINE TITLE - GLOBAL WEATHER
 APPLICATION TITLE - GLOBAL THERMAL BALANCE
 SUBAPPLICATION TITLE - ATMOS THERMAL BALANCE
 TREE - 9 2. 1. 1. 2

PARAMETER	REFER.	DES ACCUR	BASED ACCUR	ACCUR UNITS	LOW HORIZ RESOL.	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL	HIGH VERT RESOL.	VERT RESOL UNITS	FRESHNESS
CLOUD COVER	L-O	1.	20.	%	5	500.	KM				
CLOUD TOP TEMP	L-O	. 1	2.	DEG C	1	500	KM				
CLOUD/ATMOS ALBEDO	L-O	0. 2	5.	%	10.	500.	KM				
SURFACE AIR TEMP	L-O	. 1	1	DEG C	0. 1	200	KM				
VERT TEMP PROF	L-O	0. 1	2	DEG C	1.	500.	KM	0 03	5.	KM	

DISCIPLINE TITLE - GLOBAL WEATHER
 APPLICATION TITLE - GLOBAL THERMAL BALANCE
 SUBAPPLICATION TITLE - ATMOS THERMAL BALANCE
 TREE - 9.2.1.1.2

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
CLOUD COVER			GLOBAL	ALL SEASONS	L-160
CLOUD TOP TEMP	3 HR-DA		GLOBAL	ALL SEASONS	L-160
CLOUD/ATMOS ALBEDO	HR-MON		GLOBAL	ALL SEASONS	L-160
SURFACE AIR TEMP	HR-DA		GLOBAL	ALL SEASONS	L-160
VERT TEMP PROF	MN-DA		GLOBAL	ALL SEASONS	L-160

```
DISCIPLINE TITLE - GLOBAL WEATHER
APPLICATION TITLE - GLOBAL THERMAL BALANCE
SUBAPPLICATION TITLE - WATER THERMAL BALANCE
TREE - 9. 2. 1. 1. 3
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[illegible]

DISCIPLINE TITLE - GLOBAL WEATHER
APPLICATION TITLE - GLOBAL THERMAL BALANCE
SUBAPPLICATION TITLE - WATER THERMAL BALANCE
TREE - 9 2.1 1 3

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
SURFACE WATER TEMP	HR-DA		GLOBAL	ALL SEASONS	L-160
VERT TEMP PROF	HR-DA		GLOBAL	ALL SEASONS	L-160
WATER ALBEDO	HR-MON		GLOBAL	ALL SEASONS	L-160
WATER EXTENT					L-160

DISCIPLINE TITLE - GLOBAL WEATHER
 APPLICATION TITLE - GLOBAL THERMAL BALANCE
 SUBAPPLICATION TITLE - ICE/SNOW THERMAL BALANCE
 TREE - 9.2.1.1.4

PARAMETER	REFER.	DES. ACCUR.	BASED ACCUR.	ACCUR. UNITS	LOW HORIZ RESOL.	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL.	VERT RESOL UNITS	FRESHNESS
ICE/SNOW EXTENT	L-0	1.	30.	%	1	100.	KM				
LAND ALBEDO	L-0	.2	3.	%	.1	500.	KM				
SURFACE TEMP	L-0	.1	1.	DEG C	.005	500	KM				
VERT TEMP PROF	L-0	.1	1.	DEG C	.005	25.	KM	.1	5.	M	

DISCIPLINE TITLE - GLOBAL WEATHER
 APPLICATION TITLE - GLOBAL THERMAL BALANCE
 SUBAPPLICATION TITLE - ICE/SNOW THERMAL BALANCE
 TREE - 9.2 1.1.4

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
ICE/SNOW EXTENT	4/DA-WK		GLOBAL	ALL SEASONS	L-160
LAND ALBEDO	WK-MON		GLOBAL	ALL SEASONS	L-160
SURFACE TEMP	MN-MON		GLOBAL	ALL SEASONS	L-160
VERT TEMP PROF	WK-MON		GLOBAL	ALL SEASONS	L-160

DISCIPLINE TITLE - GLOBAL WEATHER
 APPLICATION TITLE - GLOBAL THERMAL BALANCE
 SUBAPPLICATION TITLE - LAND THERMAL BALANCE
 TREE - 9.2.1.1.5

PARAMETER	REFER.	DES ACCUR.	BASED ACCUR.	ACCUR UNITS	LOW HORIZ RESOL.	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL	HIGH VERT RESOL.	VERT RESOL UNITS	FRESHNESS
LAND ALBEDO	L-0	2	3	%	.01	500.	KM				
LAND COVER TYPE	L-0	2.	5	%	.01	500.	KM				
SPECIAL THERMAL SOURCES	L-0	.1	1.	DEG C	10.	100.	M				
SURFACE TEMP	L-0	.1	1.	DEG C	5.	500.	KM				
VERT TEMP PROF	L-0	.8	1	DEG C	2	100.	M	.1	1.	M	

DISCIPLINE TITLE - GLOBAL WEATHER
 APPLICATION TITLE - GLOBAL THERMAL BALANCE
 SUBAPPLICATION TITLE - LAND THERMAL BALANCE
 TREE - 9.2.1.1.5

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
LAND ALBEDO	DA-ONCE		GLOBAL	ALL SEASONS	L-160
LAND COVER TYPE	WK-YR		GLOBAL	ALL SEASONS	L-160
SPECIAL THERMAL SOURCES	HR-YR		GLOBAL	ALL SEASONS	L-160
SURFACE TEMP	MN-MON		GLOBAL	ALL SEASONS	L-160
VERT TEMP PROF	DA-WK		GLOBAL	ALL SEASONS	L-160

DISCIPLINE TITLE - GLOBAL WEATHER
 APPLICATION TITLE - ATMOSPHERIC CONVECTIVE BALANCE ASSESSMENT
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 9 2 1 2

PARAMETER	REFER.	DES ACCUR.	BASD ACCUR	ACCUR UNITS	LOW HORIZ RESOL	HIGH HORIZ RESOL	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL	VERT RESOL UNITS	FRESHNESS
AIR TEMP	L-1	.25		DEG C	1	5	KM				30 MIN
OCEAN SURFACE PRESSURE	L-0	3		%	200.	200.	KM				30 MIN
VERT HUMIDITY PROF	L-0	5		%	100	100	KM	2.	2	KM	30 MIN
VERT PRESSURE PROF	L-1	3		%	200	200	KM	2.	2	KM	30MN
VERT TEMP PROF	L-0	1.		DEG C	100	100	KM	2.	2	KM	30 MIN
VERT WIND PROF	L-1	1.		M/S	150	150	KM	2.	2	KM	30MN

DISCIPLINE TITLE - GLOBAL WEATHER
 APPLICATION TITLE - ATMOSPHERIC CONVECTIVE BALANCE ASSESSMENT
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 9.2.1.2

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
AIR TEMP	2-4/DA	2-4WK	GLOBAL		
OCEAN SURFACE PRESSURE	2-4/DA	2-4 WK	GLOBAL		
VERT HUMIDITY PROF	2-4/DA	2-4 WK	GLOBAL		
VERT PRESSURE PROF	2-4/DA	2-4WK	GLOBAL		
VERT TEMP PROF	2-4/DA	2-4 WK	GLOBAL		
VERT WIND PROF	2-4/DA	2-4WK	GLOBAL		

DISCIPLINE TITLE - GLOBAL WEATHER
 APPLICATION TITLE - GLOBAL CONVECTIVE BALANCE
 SUBAPPLICATION TITLE - ATMOS CONVECTIVE BALANCE
 TREE - 9 2. 1. 2. 1

PARAMETER	REFER.	DES ACCUR.	BASED ACCUR	ACCUR. UNITS	LOW HORIZ RESOL	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL	HIGH VERT RESOL.	VERT RESOL UNITS	FRESHNESS
AIR INSTABILITY	L-0										
SURFACE PRESSURE	L-0	1	3	MB	1	500.	KM				
SURFACE WIND SPEED	L-0	2.	10	DEG	5	200.	KM				
VERT PRESSURE PROF	L-0	1.	3	MB	1	500	KM	1.	5.	KM	HR-2 DA
VERT WIND CONVECT DUCTS LOC	L-0		5.	CM/ST*	10	500	KM	.3	4.	KM	
VERT WIND CONVECT DUCTS SIZE	L-0		5	CM/ST*	10	500	KM	.3	4.	KM	
VERT WIND PROF	L-0	1.	3	MB	5	500.	KM	.5	20.	KM	

DISCIPLINE TITLE - GLOBAL WEATHER
 APPLICATION TITLE - GLOBAL CONVECTIVE BALANCE
 SUBAPPLICATION TITLE - ATMOS CONVECTIVE BALANCE
 TREE - 9 2.1.2.1

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
AIR INSTABILITY			GLOBAL	ALL SEASONS	L-160
SURFACE PRESSURE	3 HR-DA		GLOBAL	ALL SEASONS	L-160
SURFACE WIND SPEED			GLOBAL	ALL SEASONS	L-160
VERT PRESSURE PROF	3 HR-DA		GLOBAL	ALL SEASONS	L-160
VERT WIND CONVECT DUCTS LOC	HR		GLOBAL	ALL SEASONS	L-160
VERT WIND CONVECT DUCTS SIZE	HR		GLOBAL	ALL SEASONS	L-160
VERT WIND PROF	MN-DA		GLOBAL	ALL SEASONS	L-160

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DISCIPLINE TITLE - GLOBAL WEATHER
APPLICATION TITLE - GLOBAL CONVECTIVE BALANCE
SUBAPPLICATION TITLE - SPACE CONVECTIVE BALANCE
TREE - 9.2.1.2.2
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PARAMETER

REFER.

DES.
ACCUR.

BASED
ACCUR.

ACCUR.
UNITS

LOW
HORIZ.
RESOL.

HIGH
HORIZ
RESOL

HORIZ
RES
UNITS

LOW
VERT
RESOL

HIGH
VERT
RESOL

VERT
RESOL
UNITS

FRESHNESS

EARTH SPIN AXIS
EARTH SPIN RATE

L-O
L-O

DISCIPLINE TITLE - GLOBAL WEATHER
APPLICATION TITLE - GLOBAL CONVECTIVE BALANCE
SUBAPPLICATION TITLE - SPACE CONVECTIVE BALANCE
TREE - 9.2 1.2.2
PARAMETER

FREQUENCY
OF UPDATE

DURATION

AREAL
COVERAGE

OBSERVATION
TIME

COMMENTS

EARTH SPIN AXIS
EARTH SPIN RATE

L-160
L-160

DISCIPLINE TITLE - GLOBAL WEATHER
 APPLICATION TITLE - GLOBAL CONVECTIVE BALANCE
 SUBAPPLICATION TITLE - WATER CONVECTIVE BALANCE
 TREE - 9 2 1. 2. 3

PARAMETER	REFER.	DES ACCUR.	BASED ACCUR	ACCUR UNITS	LOW HORIZ RESOL	HIGH HORIZ RESOL	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL	VERT RESOL UNITS	FRESHNESS
ASTRONOMICAL/STORM TIDES	L-0	100.	500.	MM	5	100	KM	1	5	CM	
MARINE GEIOD	L-0	2.	10	CM	1	10	KM	2.	10	CM	
OCEAN CURRENT	L-0	1	100	KM	1	100.	KM				
SEDIMENT TRANSPORT AMP	L-0				.01	10.	KM				
SEDIMENT TRANSPORT DIR	L-0				.01	10.	KM				
SHOAL/SHORELINE MOVEMENTS	L-0	1.	25	M	.001	10	KM				
SURFACE WIND SPEED	L-0	0.1	1.	DEG/C*	0.05	500.	KM				
UPWELLING EXTENT	L-0	.01	10	KM	.01	10.	KM				
UPWELLING LOCATION	L-0	.01	10	KM	.01	10.	KM				
WAVE SPECTRA	L-0	5.	15	%	1	100.	KM				

DISCIPLINE TITLE - GLOBAL WEATHER
 APPLICATION TITLE - GLOBAL CONVECTIVE BALANCE
 SUBAPPLICATION TITLE - WATER CONVECTIVE BALANCE
 TREE - 9.2.1.2.3

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
ASTRONOMICAL/STORM TIDES	HR-DA		GLOBAL	ALL SEASONS	L-160
MARINE GEOD	YR		GLOBAL	ALL SEASONS	L-160
OCEAN CURRENT	HR-DA		GLOBAL	ALL SEASONS	L-160
SEDIMENT TRANSPORT AMP	HR-DA		GLOBAL	ALL SEASONS	L-160
SEDIMENT TRANSPORT DIR	HR-DA		GLOBAL	ALL SEASONS	L-160
SHOAL/SHORELINE MOVEMENTS	DA-WK		GLOBAL	ALL SEASONS	L-160
SURFACE WIND SPEED	4/DA-DA		GLOBAL	ALL SEASONS	L-160
UPWELLING EXTENT	HR-DA		GLOBAL	ALL SEASONS	L-160
UPWELLING LOCATION	HR-DA		GLOBAL	ALL SEASONS	L-160
WAVE SPECTRA	HR-DA		GLOBAL	ALL SEASONS	L-160

DISCIPLINE TITLE - GLOBAL WEATHER
 APPLICATION TITLE - GLOBAL CONVECTIVE BALANCE
 SUBAPPLICATION TITLE - ICE/SNOW CONVECTIVE BALANCE
 TREE - 9.2.1.2.4

PARAMETER	REFER.	DES. ACCUR.	BASD ACCUR	ACCUR UNITS	LOW HORIZ RESOL	HIGH HORIZ RESOL	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL.	VERT RESOL UNITS	FRESHNESS
ICE DEFORMATION RATE	L-0		. 1	%	10.	100	M				
ICE DRIFT RATE	L-0				. 05	25.	KM				
ICE DRIFT RATE	L-0										
ICE LEAD FRACTIONAL AREA	L-0	5.	100.	M	5.	100.	M				
ICEBERG DEFORMATION RATE	L-0										
ICEBERG LOCATION	L-0	5.	100.	M	5.	100.	M				

DISCIPLINE TITLE - GLOBAL WEATHER
 APPLICATION TITLE - GLOBAL CONVECTIVE BALANCE
 SUBAPPLICATION TITLE - ICE/SNOW CONVECTIVE BALANCE
 TREE - 9 2. 1. 2. 4

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
ICE DEFORMATION RATE	4 MON-YR		GLOBAL	ALL SEASONS	L-160
ICE DRIFT RATE	DA		GLOBAL	ALL SEASONS	L-160
ICE DRIFT RATE			GLOBAL	ALL SEASONS	L-160
ICE LEAD FRACTIONAL AREA	HR-DA		GLOBAL	ALL SEASONS	L-160
ICEBERG DEFORMATION RATE	DA-WK				L-160
ICEBERG LOCATION	4/DA-DA		GLOBAL	ALL SEASONS	L-160

DISCIPLINE TITLE - GLOBAL WEATHER
 APPLICATION TITLE - GLOBAL CONVECTIVE BALANCE
 SUBAPPLICATION TITLE - LAND CONVECTIVE BALANCE
 TREE - 9 2.1 2.5

PARAMETER	REFER.	DES ACCUR.	BASED ACCUR.	ACCUR UNITS	LOW HORIZ RESOL.	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL	HIGH VERT RESOL.	VERT RESOL UNITS	FRESHNESS
CRUSTAL UPLIFT, SUBSIDENCE	L-0	1	3.	CM	50	50	M	1.	3	CM	
CRUSTAL UPLIFT, SUBSIDENCE	L-0	1.	3	CM	50.	50.	M	1	3	CM	
DRAINAGE PATTERNS	L-0				20.	50.	M				
EROSION RATE	L-0										
MAGMA TRANSPORT	L-0										
TOPSOIL TRANSPORT	L-0				20	50	M				

DISCIPLINE TITLE - GLOBAL WEATHER
 APPLICATION TITLE - GLOBAL CONVECTIVE BALANCE
 SUBAPPLICATION TITLE - LAND CONVECTIVE BALANCE
 TREE - 9.2.1.2.5

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
CRUSTAL UPLIFT, SUBSIDENCE	YR		GLOBAL	ALL SEASONS	L-160
CRUSTAL UPLIFT, SUBSIDENCE	YR		GLOBAL	ALL SEASONS	L-160
DRAINAGE PATTERNS	MON-YR		GLOBAL	ALL SEASONS	L-160
EROSION RATE			GLOBAL	ALL SEASONS	L-160
MAGMA TRANSPORT			GLOBAL	ALL SEASONS	L-160
TOPSOIL TRANSPORT	MON		GLOBAL	ALL SEASONS	L-160

DISCIPLINE TITLE - GLOBAL WEATHER
 APPLICATION TITLE - ATMOSPHERIC WATER BALANCE ASSESSMENT
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 9.2 1.3

PARAMETER	REFER.	DES ACCUR.	BASED ACCUR.	ACCUR. UNITS	LOW HORIZ RESOL.	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL.	VERT RESOL UNITS	FRESHNESS
CLOUD COVER	L-1				20.	20	KM				
CLOUD PARTICLE SIZE DISTRIB	L-1				20.	20	KM				
CLOUD THICKNESS	L-1				20	20.	KM				30 MIN
CLOUD TOP HEIGHT	L-1				20	20	KM				30 MIN
PRECIP EXTENT	L-0				50.	50.	KM				30 MIN
PRECIP RATE	L-1	. 5		CM/HR	30	50	KM				30MIN
PRECIP TYPE	L-0				30	50.	KM				30MIN
PRECIP WATER PROF	L-1	1		CM/CM2	50	100.	KM	2	2.	KM	30MIN
VERT HUMIDITY PROF	L-1	5.		%	500	500.	KM	2.	2.	KM	30MIN
VERT TEMP PROF	L-0				500.	500	KM	2.	2.	KM	30 MN

DISCIPLINE TITLE - GLOBAL WEATHER
 APPLICATION TITLE - ATMOSPHERIC WATER BALANCE ASSESSMENT
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 9.2.1.3

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
CLOUD COVER	2-4/DA		GLOBAL	1-4WK	
CLOUD PARTICLE SIZE DISTRIB	2-4/DA		GLOBAL	1-4WK	
CLOUD THICKNESS	2-4/DA		GLOBAL	1-4WK	
CLOUD TOP HEIGHT	2-4/DA		GLOBAL	1-4WK	
PRECIP EXTENT	2/DA		GLOBAL	1-4WK	
PRECIP RATE	2/DA		GLOBAL	1-4WK	
PRECIP TYPE	2/DA		GLOBAL	1-4WK	
PRECIP WATER PROF	2/DA		GLOBAL	1-4WK	
VERT HUMIDITY PROF	1/DA		GLOBAL	1-4WK	
VERT TEMP PROF	1/DA		GLOBAL	1-4 WK	

DISCIPLINE TITLE - GLOBAL WEATHER
 APPLICATION TITLE - GLOBAL WATER BALANCE
 SUBAPPLICATION TITLE - ATMOS WATER BALANCE
 TREE - 9.2 1.3.1

PARAMETER	REFER.	DES ACCUR.	BASD ACCUR	ACCUR UNITS	LOW HORIZ RESOL	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL.	VERT RESOL UNITS	FRESHNESS
CLOUD LEVEL	L-0	.5	1	KM	5.	500.		5	1.	KM	
CLOUD PARTICLE SIZE DISTRIB	L-0										
PRECIP AMOUNT	L-0		1	CM/CM2	5.	500	KM				
PRECIP RATE	L-0	.5	2	CM/HR	3.	200	KM				
PRECIP TYPE	L-0				2	200.	KM				
PRECIP WATER PROF	L-0	.1	1.	CM/CM2	0.5	500.	KM	30.	300.	M	
VERT HUMIDITY PROF	L-0	1.	30	%	5.	500	KM	0.03	5.	KM	
VISIBILITY	L-0	10.	4.	LEVELS	1.	300.	KM				

DISCIPLINE TITLE - GLOBAL WEATHER
 APPLICATION TITLE - GLOBAL WATER BALANCE
 SUBAPPLICATION TITLE - ATMOS WATER BALANCE
 TREE - 9 2.1.3.1

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
CLOUD LEVEL	3-12 HR		GLOBAL	ALL SEASONS	L-160
CLOUD PARTICLE SIZE DISTRIB					L-160
PRECIP AMOUNT	MN-2/DA		GLOBAL	ALL SEASONS	L-160
PRECIP RATE	MN-DA		GLOBAL	ALL SEASONS	L-160
PRECIP TYPE	MN-DA		GLOBAL	ALL SEASONS	L-160
PRECIP WATER PROF	MN-DA		GLOBAL	ALL SEASONS	L-160
VERT HUMIDITY PROF	MN-DA		GLOBAL	ALL SEASONS	L-160
VISIBILITY	HR-2/DA		GLOBAL	ALL SEASONS	L-160, FOG/MIST

DISCIPLINE TITLE - GLOBAL WEATHER
 APPLICATION TITLE - GLOBAL WATER BALANCE
 SUBAPPLICATION TITLE - WATER BALANCE
 TREE - 9 2 1. 3. 2

PARAMETER	REFER.	DES ACCUR	BASED ACCUR.	ACCUR. UNITS	LOW HORIZ RESOL.	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL	VERT RESOL UNITS	FRESHNESS
EVAPORATION RATE	L-0		100	W/CM2	500.	500.	KM				
WATER EXTENT	L-0				.01	2	KM				

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DISCIPLINE TITLE - GLOBAL WEATHER
APPLICATION TITLE - GLOBAL WATER BALANCE
SUBAPPLICATION TITLE - WATER BALANCE
PARAMETER - 9 2.1 3.2
EXTRAPOLATION RATE - FREQUENCY OF UPDATE
MON-MON-YR

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DURATION

AREAL
COVERAGE
GLOBAL
GLOBAL

OBSERVATION
TIME
ALL SEASONS
ALL SEASONS

COMMENTS

L-160
L-160

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DISCIPLINE TITLE - GLOBAL WEATHER
APPLICATION TITLE - GLOBAL WATER BALANCE
SUBAPPLICATION TITLE - ICE/SNOW WATER BALANCE
TREE - 9. 2. 1. 3. 3
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[illegible]

DISCIPLINE TITLE - GLOBAL WEATHER
 APPLICATION TITLE - GLOBAL WATER BALANCE
 SUBAPPLICATION TITLE - ICE/SNOW WATER BALANCE
 TREE - 9.2.1.3.3
 PARAMETER

FREQUENCY
 OF UPDATE

DURATION

AREAL
 COVERAGE

OBSERVATION
 TIME

COMMENTS

ICE THICKNESS
 ICE/SNOW EXTENT
 SNOW DEPTH
 SUBLIMATION RATE
 WATER EQUIVALENT

2/DA-YR
 3 HR-YR
 2/DA-DA
 DA-MON

GLOBAL
 GLOBAL
 GLOBAL
 GLOBAL
 GLOBAL

ALL SEASONS
 ALL SEASONS
 ALL SEASONS
 ALL SEASONS
 ALL SEASONS

L-160
 L-160
 L-160
 L-160
 L-160

DISCIPLINE TITLE - GLOBAL WEATHER
 APPLICATION TITLE - GLOBAL WATER BALANCE
 SUBAPPLICATION TITLE - LAND WATER BALANCE
 TREE - 9.2.1.3.4

PARAMETER	REFER	DES ACCUR	BASED ACCUR.	ACCUR. UNITS	LOW HORIZ RESOL	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL	HIGH VERT RESOL.	VERT RESOL UNITS	FRESHNESS
DRAINAGE PATTERNS	L-0	10.	1000	M	01	1.	KM				
DRAINAGE PATTERNS	L-0	20.	50	M	20	50	M				
DROUGHT INDEX	L-0	10.	1000.	M	10	1000	M				
EVAPORATION RATE	L-0				02	500	KM				
SATURATION OF VADOSE ZONE	L-0				20	50.	M				
SOIL MOISTURE	L-0		0 5	CC/CC							
WATER TABLE DEPTH	L-0				20.	50.	M				
WETLAND EXTENT	L-0	50	100.	M	50	100.	M				
WETLAND TYPE	L-0	50.	100.	M	50.	100.	M				

DISCIPLINE TITLE - GLOBAL WEATHER
 APPLICATION TITLE - GLOBAL WATER BALANCE
 SUBAPPLICATION TITLE - LAND WATER BALANCE
 TREE - 9.2.1.3.4

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
DRAINAGE PATTERNS	MON-YR		GLOBAL	ALL SEASONS	L-160
DRAINAGE PATTERNS	WK-YR		GLOBAL	ALL SEASONS	L-160
DROUGHT INDEX	MON-YR		GLOBAL	ALL SEASONS	L-160
EVAPORATION RATE	WK-MON		GLOBAL	ALL SEASONS	L-160
SATURATION OF VADOSE ZONE	MON-YR		GLOBAL	ALL SEASONS	L-160
SOIL MOISTURE	HR-YR		GLOBAL	ALL SEASONS	L-160
WATER TABLE DEPTH	MON-YR		GLOBAL	ALL SEASONS	L-160
WETLAND EXTENT	MON-YR		GLOBAL	ALL SEASONS	L-160
WETLAND TYPE	MON-YR		GLOBAL	ALL SEASONS	L-160

DISCIPLINE TITLE - GLOBAL WEATHER
 APPLICATION TITLE - OCEAN SURFACE LAYER PROCESSES
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 9 2.2.1

PARAMETER	REFER	DES ACCUR.	BASD ACCUR	ACCUR. UNITS	LOW HORIZ RESOL	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL	VERT RESOL UNITS	FRESHNESS
OCEAN SURFACE WIND DIR	L-66				100.	500	KM				
OCEAN SURFACE WIND SPEED	L-66	0 1	1. 0	DEG/C*	100	500	KM				
OCEAN TEMP PROF	L-66	0 1	1. 0	DEG C	100	500.	KM				
SEA SURFACE TEMP	L-66	0. 1	1 0	DEG C	100.	500	KM				
UPPER OCEAN HEAT STORAGE	L-66				100.	500.	KM				

DISCIPLINE TITLE - GLOBAL WEATHER
APPLICATION TITLE - OCEAN SURFACE LAYER PROCESSES
SUBAPPLICATION TITLE - NO TITLE
TREE - 9.2.2.1

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
OCEAN SURFACE WIND DIR	4/DA-DA		GLOBAL		L-160
OCEAN SURFACE WIND SPEED	HR-DA		GLOBAL		L-160
OCEAN TEMP PROF	HR-DA		GLOBAL		L-160
SEA SURFACE TEMP			GLOBAL		
UPPER OCEAN HEAT STORAGE			GLOBAL		

DISCIPLINE TITLE - GLOBAL WEATHER
 APPLICATION TITLE - GENERAL OCEAN CIRCULATION
 SUBAPPLICATION TITLE - VALIDATION OF OCEAN MODEL
 TREE - 9.2.2.2.1

PARAMETER	REFER	DES ACCUR.	BASED ACCUR	ACCUR. UNITS	LOW HORIZ RESOL.	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL.	VERT RESOL UNITS	FRESHNESS
DEEPSEA CIRCULATION	L-29	. 1	5	CM/SEC	1000	1000.	KM				
HEAT CONTENT OF UPPER LAYER	L-29	1	3	KCAL/*	200.	200	KM				
SEA LEVEL HEIGHT	L-29	2	10.	CM	200.	200	KM				
SEA SURFACE TEMP	L-29	. 5	1. 5	DEG C	200	500	KM				
SUBSURFACE CURRENTS	L-29	2.	10.	CM/SEC							
WIND STRESS	L-29	0. 1	0. 4	DYNE/*	200.	200.	KM				

DISCIPLINE TITLE - GLOBAL WEATHER
 APPLICATION TITLE - GENERAL OCEAN CIRCULATION
 SUBAPPLICATION TITLE - VALIDATION OF OCEAN MODEL
 TREE - 9.2.2.2.1

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
DEEPSEA CIRCULATION	5YR		GLOBAL		
HEAT CONTENT OF UPPER LAYER	5-10DA		GLOBAL		200 M
SEA LEVEL HEIGHT	5-10 DA		GLOBAL		
SEA SURFACE TEMP	5-10DA		GLOBAL		
SUBSURFACE CURRENTS	30 DA		GLOBAL		CRIT AREAS
WIND STRESS	5-10 DA		GLOBAL		

DISCIPLINE TITLE - GLOBAL WEATHER
 APPLICATION TITLE - GENERAL OCEAN CIRCULATION
 SUBAPPLICATION TITLE - WIND DRIVEN OCEAN CIRCULATION
 TREE - 9 2.2 2.2

PARAMETER	REFER.	DES. ACCUR.	BASED ACCUR.	ACCUR UNITS	LOW HORIZ RESOL.	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL.	VERT RESOL UNITS	FRESHNESS
OCEAN SURFACE WIND DIR	L-156	10.	20.	DEG	50	50.	KM				
OCEAN SURFACE WIND SPEED	L-156	2.		M/S	50.	50	KM				

DISCIPLINE TITLE - GLOBAL WEATHER
APPLICATION TITLE - GENERAL OCEAN CIRCULATION
SUBAPPLICATION TITLE - WIND DRIVEN OCEAN CIRCULATION
TREE - 9.2.2.2 2

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
OCEAN SURFACE WIND DIR					
OCEAN SURFACE WIND SPEED					

DISCIPLINE TITLE - GLOBAL WEATHER
 APPLICATION TITLE - OCEAN TROPICAL REGIONS
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 9 2.2.3

PARAMETER	REFER.	DES. ACCUR.	BASED ACCUR	ACCUR UNITS	LOW HORIZ RESOL.	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL	HIGH VERT RESOL.	VERT RESOL UNITS	FRESHNESS
PRECIP RATE	L-66	0 1	0.1	CM/CM2	50	200.	KM				
SEA SURFACE TEMP	L-66	0 1	1.0	DEG C	50	200	KM				
WIND STRESS	L-66	0.1	1.0	DEG/C*	50	200.	KM				

DISCIPLINE TITLE - GLOBAL WEATHER
APPLICATION TITLE - OCEAN TROPICAL REGIONS
SUBAPPLICATION TITLE - NO TITLE
TREE - 9.2.2.3
PARAMETER

FREQUENCY
OF UPDATE

DURATION

AREAL
COVERAGE

OBSERVATION
TIME

COMMENTS

PRECIP RATE
SEA SURFACE TEMP
WIND STRESS

HR-DA
HR-DA
4/DA-DA

TROPICAL REGIONS
TROPICAL REGIONS
TROPICAL REGIONS

L-160
L-160

DISCIPLINE TITLE - GLOBAL WEATHER
 APPLICATION TITLE - ARCTIC AND SUBARCTIC SEAS
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 9.2.2.4

PARAMETER	REFER.	DES. ACCUR.	BASED ACCUR.	ACCUR. UNITS	LOW HORIZ RESOL.	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL.	VERT RESOL UNITS	FRESHNESS
HEAT TRANSPORT	L-66										
ICE DRIFT RATE	L-66				1.0	25	KM				
ICE EXTENT	L-66	1.0	30	%	1.0	100.	KM				
SALINITY	L-66	0.005	0.05	PPT	1.0	100.	KM				

DISCIPLINE TITLE - GLOBAL WEATHER
APPLICATION TITLE - ARCTIC AND SUBARCTIC SEAS
SUBAPPLICATION TITLE - NO TITLE
TREE - 9 2.2 4

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
HEAT TRANSPORT	DA				L-160
ICE DRIFT RATE	4/DA-WK				L-160
ICE EXTENT	HR-YR				L-160
SALINITY					

DISCIPLINE TITLE - GLOBAL WEATHER
 APPLICATION TITLE - ARCTIC AND SUBARCTIC SEAS
 SUBAPPLICATION TITLE - POLAR EXP (POLEX)
 TREE - 9.2.2.4.1

PARAMETER	REFER.	DES. ACCUR.	BASD ACCUR.	ACCUR UNITS	LOW HORIZ RESOL.	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL.	VERT RESOL UNITS	FRESHNESS
ICE BOUNDARY	L-155	1.	5.	KM	1.	5.	KM				
ICE CONCEN	L-155	1.	5.	KM	1.	5.	KM				
OCEAN TOPOGRAPHY	L-155		10.	CM	10.	10	KM				
SEA SURFACE TEMP	L-155	.5	2.	DEG C	5.	25.	KM				
SURFACE WIND DIR	L-155				5.	25.	KM				
SURFACE WIND SPEED	L-155	1.	2.	M/S	5.	25.	KM				

DISCIPLINE TITLE - GLOBAL WEATHER
APPLICATION TITLE - ARCTIC AND SUBARCTIC SEAS
SUBAPPLICATION TITLE - POLAR EXP(POLEX)
TREE - 9.2.2.4.1

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
ICE BOUNDARY	7DA		N. HEMISPHERE		
ICE CONCEN	7 DA		ARCTIC		
OCEAN TOPOGRAPHY	7-28DA				
SEA SURFACE TEMP	1-7 DA		ARCTIC		
SURFACE WIND DIR	2-8DA		ARCTIC		
SURFACE WIND SPEED	2-8 DA		ARCTIC		

DISCIPLINE TITLE - GLOBAL WEATHER
APPLICATION TITLE - SOUTHERN OCEANS
SUBAPPLICATION TITLE - NO TITLE
TREE - 9 2.2.7

PARAMETER

REFER.

**DES
ACCUR.**

**BASED
ACCUR.**

ACCUR
UNITS

LOW
HORIZ.
RESOL.

HIGH
HORIZ.
RESOL.

HORIZ
RES
UNITS

LOW
VERT.
RESOL.

HIGH
VERT
RESOL

VERT
RESOL
UNITS

FRESHNESS

HEAT TRANSPORT
ICE EXTENT
OCEAN CURRENT
SALINITY

L-66
L-66
L-66
L-66

DISCIPLINE TITLE - GLOBAL WEATHER
APPLICATION TITLE - SOUTHERN OCEANS
SUBAPPLICATION TITLE - NO TITLE
TREE - 9.2.2.7
PARAMETER

FREQUENCY
OF UPDATE

DURATION

AREAL
COVERAGE

OBSERVATION
TIME

COMMENTS

HEAT TRANSPORT
ICE EXTENT
OCEAN CURRENT
SALINITY

DISCIPLINE TITLE - GLOBAL WEATHER
 APPLICATION TITLE - GEOCHEMISTRY
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 9 2. 2. 8
 PARAMETER

REFER.	DES ACCUR.	BASED ACCUR	ACCUR UNITS	LOW HORIZ RESOL	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL.	VERT RESOL UNITS	FRESHNESS
L-66										

HEAT TRANSPORT

DISCIPLINE TITLE - GLOBAL WEATHER
APPLICATION TITLE - GEOCHEMISTRY
SUBAPPLICATION TITLE - NO TITLE
TREE - 9.2.2.8
PARAMETER

FREQUENCY
OF UPDATE

DURATION

AREAL
COVERAGE

OBSERVATION
TIME

COMMENTS

HEAT TRANSPORT

DISCIPLINE TITLE - GLOBAL WEATHER
 APPLICATION TITLE - SOUTHERN OCEANS
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 9 2. 2. 9
 PARAMETER

REFER.	DES. ACCUR.	BASED ACCUR	ACCUR UNITS	LOW HORIZ RESOL.	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL.	VERT RESOL UNITS	FRESHNESS
ICE EXTENT	L-155	1.	5.	KM	5.	25.	KM			
SEA SURFACE TEMP	L-155	.5	2	DEG C	5.	25	KM			
SURFACE WIND DIR	L-155				5	25	KM			
SURFACE WIND SPEED	L-155	1.	2	M/S	5.	25.	KM			
TOPOGRAPHIC FEATURES	L-155		10.	CM	10.	10.	KM			

DISCIPLINE TITLE - GLOBAL WEATHER
APPLICATION TITLE - SOUTHERN OCEANS
SUBAPPLICATION TITLE - NO TITLE
TREE - 9.2 2.9

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
ICE EXTENT	7 DA		S HEMISPHERE		
SEA SURFACE TEMP	1-7 DA		ANTARCTIC		
SURFACE WIND DIR	2-8 DA		ANTARCTIC		
SURFACE WIND SPEED	2-8 DA		ANTARCTIC		
TOPOGRAPHIC FEATURES	7-28DA		50-65LAT		BATHYMETRY

```
DISCIPLINE TITLE - GLOBAL WEATHER
APPLICATION TITLE - MIDLATITUDE REGIONAL PROBLEMS
SUBAPPLICATION TITLE - NO TITLE
TREE - 9 2.3.1
```

[illegible]

DISCIPLINE TITLE - GLOBAL WEATHER
APPLICATION TITLE - MIDLATITUDE REGIONAL PROBLEMS
SUBAPPLICATION TITLE - NO TITLE
TREE - 9 2 3.1

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
COAST LINE			SYNOPTIC SCALE		
FRONTS LOCATION			SYNOPTIC SCALE		
HEAT TRANSPORT			SYNOPTIC SCALE		
JETSTREAM LOCATION			SYNOPTIC SCALE		
TOPOGRAPHIC FEATURES			SYNOPTIC SCALE		
VERT TEMP PROF			SYNOPTIC SCALE		
VERT WIND PROF			SYNOPTIC SCALE		
WATER VAPOR CONTENT			SYNOPTIC SCALE		

DISCIPLINE TITLE - GLOBAL WEATHER
 APPLICATION TITLE - MONSOON EXPERIMENT
 SUBAPPLICATION TITLE - MONSOON AND INDIAN OCEAN EXP(MONEX AND INDEX)
 TREE - 9 2.3.2.1

PARAMETER	REFER.	DES. ACCUR	BASD ACCUR	ACCUR UNITS	LOW HORIZ RESOL.	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL.	VERT RESOL UNITS	FRESHNESS
CLOUD TEMP	L-155				25	25.	KM				
OCEAN SURFACE WIND DIR	L-155				25	25.	KM				
OCEAN SURFACE WIND SPEED	L-155	1	2	M/S	25	25.	KM				
SEA SURFACE TEMP	L-155	5	2	DEG C	25	25.	KM				
TOPOGRAPHIC FEATURES	L-155	10.		CM	10.	10.	KM				

DISCIPLINE TITLE - GLOBAL WEATHER
 APPLICATION TITLE - MONSOON EXPERIMENT
 SUBAPPLICATION TITLE - MONSOON AND INDIAN OCEAN EXP(MONEX AND INDEX)
 TREE - 9.2.3.2.1

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
CLOUD TEMP			MONSOON AREA		
OCEAN SURFACE WIND DIR	2-8DA		INDIAN OCEAN		
OCEAN SURFACE WIND SPEED	2-8 DA		INDIAN OCEAN		
SEA SURFACE TEMP	1-7DA		INDIAN OCEAN/ARABIA*		
TOPOGRAPHIC FEATURES	7-28 DA		INDIAN OCEAN		

DISCIPLINE TITLE - GLOBAL WEATHER
 APPLICATION TITLE - MONSOON EXPERIMENT
 SUBAPPLICATION TITLE - GARP MONSOON SUBPROGRAM
 TREE - 9.2 3.2.2

PARAMETER	REFER.	DES. ACCUR.	BASED ACCUR	ACCUR. UNITS	LOW HORIZ RESOL.	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL.	VERT RESOL UNITS	FRESHNESS
VERT HUMIDITY PROF	L-63	1 0	30	%	250	250.	KM	0 03	2 0	KM	
VERT TEMP PROF	L-63	0. 1	2. 0	DEG C	250.	250.	KM	0. 03	2 0	KM	

DISCIPLINE TITLE - GLOBAL WEATHER
APPLICATION TITLE - MONSOON EXPERIMENT
SUBAPPLICATION TITLE - GARP MONSOON SUBPROGRAM
TREE - 9.2 3.2.2

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
VERT HUMIDITY PROF	HR				L-160
VERT TEMP PROF	HR				L-160

DISCIPLINE TITLE - GLOBAL WEATHER
APPLICATION TITLE - POLAR EXPERIMENT
SUBAPPLICATION TITLE - POLAR ICE SHEETS
TREE - 9.2.3 3

PARAMETER	REFER	DES ACCUR	BASD ACCUR	ACCUR UNITS	LOW HORIZ RESOL.	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL.	VERT RESOL UNITS	FRESHNESS
BOUNDARY CHANGE	L-29	1.	5.	KM	1	5	KM				
ICE DEFORMATION RATE	L-29	1	10	M	200	200	KM				
ICE THICKNESS	L-29	1	1	M	200	200	KM				

DISCIPLINE TITLE - GLOBAL WEATHER
APPLICATION TITLE - POLAR EXPERIMENT
SUBAPPLICATION TITLE - POLAR ICE SHEETS
TREE - 9 2.3 3

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
BOUNDARY CHANGE	1 MON				
ICE DEFORMATION RATE	1 YR				
ICE THICKNESS	1 YR				

```
DISCIPLINE TITLE - GLOBAL WEATHER
APPLICATION TITLE - TROPICAL STRATOSPHERIC WAVES
SUBAPPLICATION TITLE - NO TITLE
TREE - 9 2.4 1
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TION TITLE = NO TITLE
 TREE - 9 2.4 1
 PARAMETER

REFER	DES ACCUR.	BASED ACCUR	ACCUR UNITS	LOW HORIZ RESOL	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL.	VERT RESOL UNITS	FRESHNESS
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VERT TEMP PROF L-66
VERT WIND PROF L-66

DISCIPLINE TITLE - GLOBAL WEATHER
APPLICATION TITLE - TROPICAL STRATOSPHERIC WAVES
SUBAPPLICATION TITLE - NO TITLE
TREE - 9 2.4.1

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
VERT TEMP PROF	2/DA				
VERT WIND PROF	2/DA				UPTO10MB

DISCIPLINE TITLE - GLOBAL WEATHER
 APPLICATION TITLE - BAROCLINIC INSTABILITY
 SUBAPPLICATION TITLE - UPPER ATMOS BAROCLINITY DISTRIB
 TREE - 9 2 4 2

PARAMETER	REFER.	DES ACCUR	BASD ACCUR	ACCUR UNITS	LOW HORIZ RESOL	HIGH HORIZ RESOL	HORIZ RES UNITS	LOW VERT RESOL	HIGH VERT RESOL.	VERT RESOL UNITS	FRESHNESS
VERT TEMP PROF	L-69				111.	111	KM	50	50	MB	
VERT WIND CONVECT DUCTS LOC	L-69				111.	111	KM	50	50	MB	
VERT WIND CONVECT DUCTS SIZE	L-69				111	111	KM	50.	50.	MB	
VERT WIND PROF	L-69				111	111	KM	50	50.	MB	

DISCIPLINE TITLE - GLOBAL WEATHER
APPLICATION TITLE - BAROCLINIC INSTABILITY
SUBAPPLICATION TITLE - UPPER ATMOS BAROCLINITY DISTRIB
TREE - 9.2.4.2

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
VERT TEMP PROF					
VERT WIND CONVECT DUCTS LOC					
VERT WIND CONVECT DUCTS SIZE					
VERT WIND PROF					

```
DISCIPLINE TITLE - GLOBAL WEATHER
APPLICATION TITLE - ATMOSPHERIC BLOCKING
SUBAPPLICATION TITLE - NO TITLE
TREE - 9 2 4.3
```

[illegible]

DISCIPLINE TITLE - GLOBAL WEATHER
APPLICATION TITLE - ATMOSPHERIC BLOCKING
SUBAPPLICATION TITLE - NO TITLE
TREE - 9.2.4 3
PARAMETER

FREQUENCY
OF UPDATE

DURATION

AREAL
COVERAGE

OBSERVATION
TIME

COMMENTS

HIGH PRESSURE PATTERN
LAND COVER TYPE
LATENT HEAT
SENSIBLE HEAT FLUX
TOPOGRAPHIC FEATURES

```
DISCIPLINE TITLE - GLOBAL WEATHER
APPLICATION TITLE - OCEAN ATMOSPHERIC INTERACTION
SUBAPPLICATION TITLE - WALKER CIRCULATION
TREE - 9 2 4.4 1
```

TREE - 9 2 4.4 1

PARAMETER

REFER.

DES
ACCUR

BASED
ACCUR.

ACCUR
UNITS

LOW
HORIZ
RESOL

HIGH
HORIZ.
RESOL.

HORIZ
RES
UNITS

LOW
VERT
RESOL

HIGH
VERT.
RESOL.

VERT
RESOL
UNITS

FRESHNESS

```
PRECIP RATE L-66
SEA SURFACE TEMP L-66
UPWELLING EXTENT L-66
UPWELLING LOCATION L-66
```


DISCIPLINE TITLE - GLOBAL WEATHER
APPLICATION TITLE - OCEAN ATMOSPHERIC INTERACTION
SUBAPPLICATION TITLE - WALKER CIRCULATION
TREE - 9.2.4.4.1

PARAMETER

FREQUENCY
OF UPDATE

DURATION

AREAL
COVERAGE

OBSERVATION
TIME

COMMENTS

PRECIP RATE
SEA SURFACE TEMP
UPWELLING EXTENT
UPWELLING LOCATION

COASTAL
COASTAL

DISCIPLINE TITLE - GLOBAL WEATHER
 APPLICATION TITLE - OCEAN ATMOSPHERIC INTERACTION
 SUBAPPLICATION TITLE - AIR/SEA INTERACTION
 TREE - 9.2.4.4.2

PARAMETER	REFER	DES ACCUR.	BASED ACCUR.	ACCUR. UNITS	LOW HORIZ RESOL.	HIGH HORIZ RESOL	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL.	VERT RESOL UNITS	FRESHNESS
AIR/SEA TEMP DIFF	L-200	1.		DEG C							
CLOUD COVER	L-200	5	50.								
CLOUD TOP HEIGHT	L-200	.5	1.	KM							
OCEAN CURRENT	L-200	1		M/S							
OCEAN SURFACE PRESSURE	L-200	2.	3.	MB	200	200.	KM				
PRECIP RATE	L-200		50.	%							
PRECIP WATER PROF	L-200	10.	50.	%							
SALINITY	L-200	5		PPT							
SEA LEVEL HEIGHT	L-200	20.	50.								
SEA SURFACE TEMP	L-200	2.		DEG C							
SURFACE WIND DIR	L-200	0.	15	DEG							
SURFACE WIND SPEED	L-200	1.	3.	M/S							
THERMOCLINE DEPTH	L-200										
VERT HUMIDITY PROF	L-200										
VERT TEMP PROF	L-200	2.		DEG C							

DISCIPLINE TITLE - GLOBAL WEATHER
APPLICATION TITLE - OCEAN ATMOSPHERIC INTERACTION
SUBAPPLICATION TITLE - AIR/SEA INTERACTION
TREE - 9.2.4.4.2

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
AIR/SEA TEMP DIFF		YR	GLOBAL		
CLOUD COVER		YR	GLOBAL		
CLOUD TOP HEIGHT		YR	GLOBAL		
OCEAN CURRENT		YR	GLOBAL		
OCEAN SURFACE PRESSURE		YR	GLOBAL		
PRECIP RATE		YR	GLOBAL		
PRECIP WATER PROF		YR	GLOBAL		
SALINITY		YR	GLOBAL		
SEA LEVEL HEIGHT		YR	GLOBAL		
SEA SURFACE TEMP		YR	GLOBAL		
SURFACE WIND DIR		YR	GLOBAL		
SURFACE WIND SPEED		YR	GLOBAL		
THERMOCLINE DEPTH		YR	GLOBAL		
VERT HUMIDITY PROF		YR	GLOBAL		
VERT TEMP PROF		YR	GLOBAL		

DISCIPLINE TITLE - GLOBAL WEATHER
 APPLICATION TITLE - OCEAN ATMOSPHERIC INTERACTION
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 9.2.4.4 3

PARAMETER	REFER.	DES ACCUR	BASD ACCUR.	ACCUR UNITS	LOW HORIZ RESOL	HIGH HORIZ RESOL	HORIZ RES UNITS	LOW VERT RESOL	HIGH VERT RESOL.	VERT RESOL UNITS	FRESHNESS
OCEAN SURFACE WIND SPEED	L-1				20	20.	KM				<24 HR
OCEAN TEMP PROF	L-1	.1	1	DEG C	20	20	KM				<24 HR
SEA SURFACE TEMP	L-1	.1	1	DEG C	20	20.	KM				<24 HR
SURFACE AIR TEMP	L-1	0.1	1	DEG C	20	20	KM				<24 HR

DISCIPLINE TITLE - GLOBAL WEATHER
 APPLICATION TITLE - OCEAN ATMOSPHERIC INTERACTION
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 9.2.4.4.3

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
OCEAN SURFACE WIND SPEED	12 HR		200KM	ALL YR	
OCEAN TEMP PROF	12 HR		200KM	ALL YEAR	
SEA SURFACE TEMP	12 HR		200 KM	ALL YEAR	
SURFACE AIR TEMP	12 HR		200	ALL YR	

DISCIPLINE TITLE - GLOBAL WEATHER
 APPLICATION TITLE - OCEAN ATMOSPHERIC INTERACTION
 SUBAPPLICATION TITLE - GLOBAL ATMOSPHERIC RESEARCH
 TREE - 9 2. 4. 4. 4

PARAMETER	REFER.	DES. ACCUR.	BASD ACCUR.	ACCUR UNITS	LOW HORIZ RESOL.	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL.	VERT RESOL UNITS	FRESHNESS
CLOUD TEMP	L-155										
OCEAN SURFACE WIND DIR	L-155				10.	50	KM				
OCEAN SURFACE WIND SPEED	L-155	1.	2	M/S	10.	50	KM				
SEA SURFACE TEMP	L-155	.5	2	DEG C	25.	100	KM				

DISCIPLINE TITLE - GLOBAL WEATHER
 APPLICATION TITLE - OCEAN ATMOSPHERIC INTERACTION
 SUBAPPLICATION TITLE - GLOBAL ATMOSPHERIC RESEARCH
 TREE - 9 2.4 4 4

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
CLOUD TEMP			GLOBAL		
OCEAN SURFACE WIND DIR	2-8DA		TROPICAL		
OCEAN SURFACE WIND SPEED	2-8DA		TROPICAL		
SEA SURFACE TEMP	2-8DA		GLOBAL		

DISCIPLINE TITLE - GLOBAL WEATHER
 APPLICATION TITLE - OCEAN ATMOSPHERIC INTERACTION
 SUBAPPLICATION TITLE - OCEAN COMPONENT OF WEATHER SYSTEM
 TREE - 9.2.4.4.5

PARAMETER	REFER	DES ACCUR.	BASD ACCUR	ACCUR UNITS	LOW HORIZ RESOL	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL.	VERT RESOL UNITS	FRESHNESS
EVAPORATION RATE	L-11	10.	25	%	500.	500	KM				DA
OCEAN SURFACE WIND SPEED	L-11	.2	1	CM/SEC							1 DA
OCEAN TEMP PROF	L-11	.2	1	DEG C							1 DA
SEA LEVEL HEIGHT	L-11	1.	10.	CM							DA
SEA SURFACE TEMP	L-11	.2	1	DEG C	500.	500.	KM				DA
SENSIBLE HEAT FLUX	L-11	10.	25.	W/M2	500.	500.	KM				DA
UPPER OCEAN HEAT STORAGE	L-11	1.	5.	KCAL/*	500.	500.	KM				DA
WIND STRESS	L-11	.1	.3	DY/CM2	500.	500.	KM				DA

DISCIPLINE TITLE - GLOBAL WEATHER
 APPLICATION TITLE - OCEAN ATMOSPHERIC INTERACTION
 SUBAPPLICATION TITLE - OCEAN COMPONENT OF WEATHER SYSTEM
 TREE - 9 2.4 4.5

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
EVAPORATION RATE	1MON	WK-MON	GLOBAL OCEAN AREA	ALL SEASONS	
OCEAN SURFACE WIND SPEED	1 MON	WK-MON	GLOBAL OCEAN AREA	ALL SEASONS	HOR RES VARIES
OCEAN TEMP PROF	1MON	WK-MON	GLOBAL OCEAN AREA	ALL SEASONS	HOR RES VARIES
SEA LEVEL HEIGHT	1MON	WK-MON	GLOBAL OCEAN AREA	ALL SEASONS	HOR RES VARIES
SEA SURFACE TEMP	1 MON	WK-MON	GLOBAL OCEAN AREA	ALL SEASONS	
SENSIBLE HEAT FLUX	1MON	WK-MON	GLOBAL OCEAN AREA	ALL SEASONS	
UPPER OCEAN HEAT STORAGE	1MON	WK-MON	GLOBAL OCEAN AREA	ALL SEASONS	
WIND STRESS	1MON	WK-MON	GLOBAL OCEAN AREA	ALL SEASONS	

```
DISCIPLINE TITLE - GLOBAL WEATHER
APPLICATION TITLE - OCEAN ATMOSPHERIC INTERACTION
SUBAPPLICATION TITLE - NO TITLE
TREE - 9 2 4 4.6
```

[illegible]

DISCIPLINE TITLE - GLOBAL WEATHER
APPLICATION TITLE - OCEAN ATMOSPHERIC INTERACTION
SUBAPPLICATION TITLE - NO TITLE
TREE - 9 2.4.4.6

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
DRIFT CURRENT					
OCEAN CURRENT					
OCEAN SURFACE PRESSURE					
THERMOCLINE DEPTH					

```
DISCIPLINE TITLE - GLOBAL WEATHER
APPLICATION TITLE - OCEAN ATMOSPHERIC INTERACTION
SUBAPPLICATION TITLE - NORTH PACIFIC EXP (NORPAX)
TREE - 9.2.4.4 7
```

[illegible]

DISCIPLINE TITLE - GLOBAL WEATHER
 APPLICATION TITLE - OCEAN ATMOSPHERIC INTERACTION
 SUBAPPLICATION TITLE - NORTH PACIFIC EXP. (NORPAX)
 TREE - 9 2.4 4.7

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
CLOUD TEMP			PACIFIC		
OCEAN SURFACE WIND DIR			PACIFIC		
OCEAN SURFACE WIND SPEED	2-8 DA		PACIFIC		
OCEAN SURFACE WIND SPEED			PACIFIC		
PRECIP WATER PROF			PACIFIC		
SEA SURFACE TEMP	1-7 DA		PACIFIC		
TOPOGRAPHIC FEATURES	7-28 DA		PACIFIC		
UPWELLING EXTENT	5-7DA		PACIFIC		
VERT HUMIDITY PROF			PACIFIC		

DISCIPLINE TITLE - GLOBAL WEATHER
APPLICATION TITLE - RAINFALL OVER LAND
SUBAPPLICATION TITLE - NO TITLE
TREE - 9 2 5.1
PARAMETER

REFER.	DES ACCUR	BASED ACCUR	ACCUR UNITS	LOW HORIZ RESOL	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL	VERT RESOL UNITS	FRESHNESS
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DISCIPLINE TITLE - GLOBAL WEATHER
APPLICATION TITLE - RAINFALL OVER LAND
SUBAPPLICATION TITLE - NO TITLE
TREE - 9 2 5.1
PARAMETER

FREQUENCY
OF UPDATE

DURATION

AREAL
COVERAGE

OBSERVATION
TIME

COMMENTS

DISCIPLINE TITLE - GLOBAL WEATHER
APPLICATION TITLE - RAINFALL OVER OCEAN
SUBAPPLICATION TITLE - NO TITLE
TREE - 9.2.5.2
PARAMETER

REFER.	DES ACCUR.	BASED ACCUR.	ACCUR UNITS	LOW HORIZ RESOL.	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL.	VERT RESOL UNITS	FRESHNESS
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DISCIPLINE TITLE - GLOBAL WEATHER
APPLICATION TITLE - RAINFALL OVER OCEAN
SUBAPPLICATION TITLE - NO TITLE
TREE - 9.2.5.2
PARAMETER

FREQUENCY
OF UPDATE

DURATION

AREAL
COVERAGE

OBSERVATION
TIME

COMMENTS

DISCIPLINE TITLE - GLOBAL WEATHER
 APPLICATION TITLE - ICE IMPACT ON WEATHER
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 9 2. 5. 3

PARAMETER	REFER.	DES ACCUR	BASED ACCUR	ACCUR UNITS	LOW HORIZ RESOL.	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL	HIGH VERT RESOL.	VERT RESOL UNITS	FRESHNESS
ICE DRIFT RATE	L-29	5.		KM(1S*	400	400.	KM				
ICE EXTENT	L-29				100	100	KM				
ICE THICKNESS	L-29	10.	20.	%	200	200	KM				
SURFACE MELTING	L-29				50.	50	KM				

DISCIPLINE TITLE - GLOBAL WEATHER
APPLICATION TITLE - ICE IMPACT ON WEATHER
SUBAPPLICATION TITLE - NO TITLE
TREE - 9.2 5.3
PARAMETER

FREQUENCY
OF UPDATE

DURATION

AREAL
COVERAGE

OBSERVATION
TIME

COMMENTS

ICE DRIFT RATE
ICE EXTENT
ICE THICKNESS
SURFACE MELTING

1DA
5DA
15-30DA
5DA

40N+
40N+
40N+
40N+

PRESENCE/ABSENCE
YES/NO

DISCIPLINE TITLE - GLOBAL WEATHER
 APPLICATION TITLE - UPPER ATMOSPHERIC RESEARCH
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 9.2.6

PARAMETER	REFER.	DES ACCUR.	BASED ACCUR.	ACCUR UNITS	LOW HORIZ RESOL.	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL	HIGH VERT RESOL	VERT RESOL UNITS	FRESHNESS
AEROSOLS	L-169	5.	25.	%	50	500.	KM	1.	5	KM	
CFXCLY	L-169		20	%	500.	500	KM	1	3	KM	
CH4	L-169	2.	20		100.	500.	KM	1.	3	KM	
CLO	L-169	2.	20.	%	500.	500	KM	1.	3.	KM	
CLOUD LEVEL	L-169	5		KM	500	500.	KM	2.	4.	KM	
CLOUD THICKNESS	L-169	5		KM	500	500	KM	2.	4	KM	
CLOUD/ATMOS ALBEDO	L-169	1.		%	500	500	KM				
CL2	L-169	1		PPB	50	500.	KM				
CO	L-169	2.	20.	%	500	500.	KM	1.	3.	KM	
CO2	L-169	2.	20.	%	500	500	KM	1	3	KM	
CXHY	L-160										
CXHYCL2	L-169	2.	20.	%	500	500.	KM	1.	3	KM	
F2	L-169										
GAMMA RAY ENERGY DISTRIB	L-160										
H, HE, AR	L-169				1000.	1000	KM	5.	5	KM	
HCL	L-169		20.	%	500.	500.		1	3.	KM	
HF	L-169	2.	20.	%	500.	500.	KM	1.	3.	KM	
HN03	L-169	2.	20.	%	500.	500.	KM	1.	3.	KM	
H02, H202, H205, CLON02, HOCL	L-169	2.	20.	%	500.	500.	KM	1.	3.	KM	
H20	L-169	2.	50	%	100.	1600.	KM	1.	3.	KM	
IONOS TEMP PROF	L-169	1.	5.	DEG C	500	2000.	KM	1.	10.	KM	
MAGNETIC FIELD STRENGTH	L-160										
NA, MG, CA, FE, AL, NI, R, LI, NAO, MGO	L-169	10		%	25.	1000.		1.	5.	KM	
NEUTRAL DENSITY	L-160										
NH3	L-169	10.	20	%	500.	500	KM	1.	3	KM	
NO	L-169	2.	20.	%	500	500.	KM	1.	3.	KM	
NO2	L-169	2.	20.	%	500.	500.	KM	1	3.	KM	
N20	L-169	2.	20.	%	500	500	KM	1	3	KM	
O	L-169	2.	20.	%	50.	500	KM	5	5	KM	
OH	L-169	2.	20.	%	10	500	KM	1	3	KM	
OZONE	L-169	2.	20.	%	200.	500.	KM	1.	5.	KM	
SOLAR CONSTANT	L-170	1.5	5	W/CM2							
SOLAR FLUX	L-160										
S02	L-169	10.	20.	%	500	500.	KM	1.	3.	KM	
TRAPPED PARTICLE ENERGY	L-160										
VERT HUMIDITY PROF	L-169	30		%	500	500	KM	2.	4.	KM	
VERT PRESSURE PROF	L-169	3		%	500.	500.	KM	2.	4	KM	
VERT TEMP PROF	L-169	1.	5	DEG C	500	2000	KM	1.	10.	KM	
VERT WIND CONVECT DUCTS LOC	L-169	10.		CM/S	500.	500	KM	2.	4.	KM	
VERT WIND CONVECT DUCTS SIZE	L-169	10.		CM/S	500.	500.	KM	2.	4.	KM	
VERT WIND PROF	L-169	2.	10.	M/S	200	1000.	KM	1	20.	KM	
WATER ALBEDO	L-169	1.		%	500	500	KM				
X-RAY ENERGY DISTRIB	L-169	1.	5	%							

DISCIPLINE TITLE - GLOBAL WEATHER
 APPLICATION TITLE - UPPER ATMOSPHERIC RESEARCH
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 9.2.6

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
AEROSOLS	24 HR				
CFXCLY	24 HR				
CH4	24 HR				
CLO	24 HR				
CLOUD LEVEL					
CLOUD THICKNESS					
CLOUD/ATMOS ALBEDO					
CL2					FU COLUMN
CO	24 HR				
CO2	24 HR				
CXHY					
CXHYCL2	24 HR				
F2					
GAMMA RAY ENERGY DISTRIB					
H, HE, AR					
HCL	24 HR				
HF	24 HR				
HNO3	24 HR				
HO2, H2O2, H2O5, CLONO2, HOCL					
H2O	24 HR				
IONOS TEMP PROF					
MAGNETIC FIELD STRENGTH					
NA, MG, CA, FE, AL, NI, R, LI, NAO, MGO					
NEUTRAL DENSITY					
NH3	24 HR				
NO	24 HR				
NO2	24 HR				
N2O	24 HR				
O	24 HR				
OH	24 HR				
OZONE	24 HR				
SOLAR CONSTANT	24 HR				
SOLAR FLUX					
SO2	24 HR				
TRAPPED PARTICLE ENERGY					
VERT HUMIDITY PROF					
VERT PRESSURE PROF					
VERT TEMP PROF					
VERT WIND CONVECT DUCTS LOC					LOCATION/SIZING
VERT WIND CONVECT DUCTS SIZE					LOCATION/SIZING
VERT WIND PROF					
WATER ALBEDO					
X-RAY ENERGY DISTRIB	24 HR				

DISCIPLINE TITLE - GLOBAL WEATHER
APPLICATION TITLE - RADIATIVE PROCESSES
SUBAPPLICATION TITLE - NO TITLE
TREE - 9.2.7.1
PARAMETER

REFER	DES ACCUR.	BASED ACCUR	ACCUR. UNITS	LOW HORIZ RESOL.	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL.	VERT RESOL UNITS	FRESHNESS
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DISCIPLINE TITLE - GLOBAL WEATHER
APPLICATION TITLE - RADIATIVE PROCESSES
SUBAPPLICATION TITLE - NO TITLE
TREE - 9.2.7.1

PARAMETER

FREQUENCY
OF UPDATE

DURATION

AREAL
COVERAGE

OBSERVATION
TIME

COMMENTS

DISCIPLINE TITLE - GLOBAL WEATHER
APPLICATION TITLE - TRANSPORT PROCESSES
SUBAPPLICATION TITLE - HEAT TRANSPORT PROCESSES
TREE - 9 2.7 2.1

PARAMETER	REFER	DES ACCUR	BASED ACCUR	ACCUR UNITS	LOW HORIZ RESOL	HIGH HORIZ RESOL	HORIZ RES UNITS	LOW VERT RESOL	HIGH VERT RESOL	VERT RESOL UNITS	FRESHNESS
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DISCIPLINE TITLE - GLOBAL WEATHER
APPLICATION TITLE - TRANSPORT PROCESSES
SUBAPPLICATION TITLE - HEAT TRANSPORT PROCESSES
TREE - 9.2.7.2 1

PARAMETER

FREQUENCY
OF UPDATE

DURATION

AREAL
COVERAGE

OBSERVATION
TIME

COMMENTS

DISCIPLINE TITLE	-	GLOBAL WEATHER													
APPLICATION TITLE	-	TRANSPORT PROCESSES													
SUBAPPLICATION TITLE	-	MOMENTUM TRANSPORT PROCESSES													
TREE	-	9.2.7.2.3													
PARAMETER		REFER.	DES ACCUR	BASD ACCUR	ACCUR UNITS	LOW HORIZ RESOL.	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL	VERT RESOL UNITS	FRESHNESS			

DISCIPLINE TITLE - GLOBAL WEATHER
APPLICATION TITLE - TRANSPORT PROCESSES
SUBAPPLICATION TITLE - MOMENTUM TRANSPORT PROCESSES
TREE - 9 2 7.2.3

PARAMETER

FREQUENCY
OF UPDATE

DURATION

AREAL
COVERAGE

OBSERVATION
TIME

COMMENTS

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DISCIPLINE TITLE - GLOBAL WEATHER
APPLICATION TITLE - WEATHER MODIFICATION
SUBAPPLICATION TITLE - SUPPRESSING HAIL
TREE - 9 2 7.3
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[illegible]

DISCIPLINE TITLE - GLOBAL WEATHER
APPLICATION TITLE - WEATHER MODIFICATION
SUBAPPLICATION TITLE - SUPPRESSING HAIL
TREE - 9 2.7.3

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
CLOUD TYPE				SUMMER	
SUPCOOLED WATERDROP CONCEN					

DISCIPLINE TITLE - GLOBAL WEATHER
APPLICATION TITLE - BOUNDARY LAYER PROCESS
SUBAPPLICATION TITLE - NO TITLE
TREE - 9.2 7.3.1
PARAMETER

REFER.	DES. ACCUR.	BASD ACCUR	ACCUR. UNITS	LOW HORIZ RESOL.	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL	VERT RESOL UNITS	FRESHNESS
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DISCIPLINE TITLE - GLOBAL WEATHER
APPLICATION TITLE - BOUNDARY LAYER PROCESS
SUBAPPLICATION TITLE - NO TITLE
TREE - 9.2 7.3.1

PARAMETER

FREQUENCY
OF UPDATE

DURATION

AREAL
COVERAGE

OBSERVATION
TIME

COMMENTS

DISCIPLINE TITLE - GLOBAL WEATHER
APPLICATION TITLE - EVAPORATION AND CONDENSATION
SUBAPPLICATION TITLE - NO TITLE
TREE - 9 2 7.4.1

PARAMETER

REFER.

DES
ACCUR

BASED
ACCUR

ACCUR
UNITS

LOW
HORIZ
RESOL

HIGH
HORIZ
RESOL

HORIZ
RES
UNITS

LOW
VERT
RESOL

HIGH
VERT
RESOL

VERT
RESOL.
UNITS

FRESHNESS

DISCIPLINE TITLE - GLOBAL WEATHER
APPLICATION TITLE - EVAPORATION AND CONDENSATION
SUBAPPLICATION TITLE - NO TITLE
TREE - 9.2.7.4 1

PARAMETER

FREQUENCY
OF UPDATE

DURATION

AREAL
COVERAGE

OBSERVATION
TIME

COMMENTS

DISCIPLINE TITLE - GLOBAL WEATHER
 APPLICATION TITLE - WEATHER RESEARCH FOR FUTURE APPLICATIONS
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 9.2.8
 PARAMETER

	REFER.	DES. ACCUR.	BASD ACCUR	ACCUR. UNITS	LOW HORIZ RESOL.	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL.	VERT RESOL UNITS	FRESHNESS
CLOUD COVER	L-1	500.		M	20	20	KM				
VERT HUMIDITY PROF	L-1	30.		%	100.	500.	KM	1.	1.	KM	
VERT PRESSURE PROF	L-1	3		%	100.	500.	KM	2.	2.	KM	
VERT TEMP PROF	L-1	2		DEG C	1.	1.	KM	1.	1.	KM	
VERT WIND PROF	L-1	1.		M/S	150.	150.	KM	2.	2.	KM	

DISCIPLINE TITLE - GLOBAL WEATHER
 APPLICATION TITLE - WEATHER RESEARCH FOR FUTURE APPLICATIONS
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 9.2.8

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
CLOUD COVER	2-4/DA				
VERT HUMIDITY PROF	1/DA				
VERT PRESSURE PROF	1/DAY				
VERT TEMP PROF	2-4/DA				
VERT WIND PROF	2-4/DA				

Climate Applications
Data Sheets

DISCIPLINE TITLE - CLIMATE
 APPLICATION TITLE - AGRICULTURE
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 10.1.1.1

PARAMETER	REFER.	DES ACCUR.	BASD ACCUR	ACCUR. UNITS	LOW HORIZ RESOL.	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL.	VERT RESOL UNITS	FRESHNESS
CLOUD COVER	L-161	5.	20.	%	100	500.	KM				
CLOUD TOP TEMP	L-161	1.	2.	DEG C	500.	500.	KM				
CLOUD/ATMOS ALBEDO	L-161	2.	4.	%	500.	500.	KM				
CO2	L-161	.5	10.	PPM							
EVAPORATION RATE	L-161	10.		W/M2	500	500	KM				
EVAPOTRANSPIRATION	L-161	10		W/M2	500.	500.	KM				
LAND ALBEDO	L-161	2	3.	%	500.	500.	KM				
LAND SURFACE TEMP	L-161	.1	.5	DEG C	200	500.	KM				
OZONE	L-161										
PRECIP EXTENT	L-162	10.		%	500.	500.	KM				
PRECIP RATE	L-162	1.	2.	CM/HR	200.	200	KM				
PRECIP WATER PROF	L-161	10	50.	MG/CM2	200.	500.	KM				
SOIL MOISTURE	L-161	.05		CC/CC	500.	500.	KM				
SOLAR CONSTANT	L-161	1.5		W/CM2							
SOLAR FLUX	L-161	10.		%	10		A				
SURFACE AIR TEMP	L-162	.2	1	DEG C	200	200.	KM				
SURFACE WATER TEMP	L-161	.1	1.	DEG C	200.	500.	KM				
VEGETATIVE EXTENT	L-161	5.	5.	%	500.	500	KM				
VERT HUMIDITY PROF	L-161	7.	30.	%	500	500.	KM	400.	400	MB	
VERT TEMP PROF	L-161	1.	2	DEG C	500	500	KM	200.	200.	MB	

DISCIPLINE TITLE - CLIMATE
 APPLICATION TITLE - AGRICULTURE
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 10.1.1.1
 PARAMETER

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
CLOUD COVER	DA				
CLOUD TOP TEMP	DA				
CLOUD/ATMOS ALBEDO	MON				
CO2	YR				
EVAPORATION RATE	MON				
EVAPOTRANSPIRATION	MON				
LAND ALBEDO	MON				
LAND SURFACE TEMP	MON				
OZONE					
PRECIP EXTENT	2/DA				
PRECIP RATE	DA				
PRECIP WATER PROF	DA				
SOIL MOISTURE	MON				
SOLAR CONSTANT	DA				
SOLAR FLUX	DA				
SURFACE AIR TEMP	DA				
SURFACE WATER TEMP	1-3 DA				
VEGETATIVE EXTENT	MON				
VERT HUMIDITY PROF	1-2 DA				
VERT TEMP PROF	1-2 DA				

DISCIPLINE TITLE - CLIMATE
 APPLICATION TITLE - FISHERY
 SUBAPPLICATION TITLE - OCEAN FISHERY
 TREE - 10.1.1.2

PARAMETER	REFER	DES. ACCUR	BASD ACCUR.	ACCUR. UNITS	LOW HORIZ RESOL	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL.	VERT RESOL UNITS	FRESHNESS
ASTRONOMICAL/STORM TIDES	L-162	2.		CM	0.5	0.5	KM				
ICE DRIFT RATE	L-162										
ICE/SNOW FRACTION	L-162		12.	%	1.	1.	KM				
OCEAN SURFACE CURRENT AMP	L-162		5	CM/S	1.0	10.	KM				
OCEAN SURFACE CURRENT DIR	L-162				1.0	10.	KM				
OCEAN SURFACE CURRENT LOC	L-162				1.0	10.	KM				
OCEAN SURFACE WIND DIR	L-162				5.	100.	KM				
OCEAN SURFACE WIND SPEED	L-162	0.5	1.	M/S	5	100.	KM				
OCEAN SURFACE WIND SPEED	L-162				100.	10.	KM				
OCEAN TEMP PROF	L-0	0.1	1.0	DEG C	1.0	100.	KM	1.0		M	
OCEAN WAVE HEIGHT	L-162		0.5	M	5	10.	KM				
OCEAN WAVE LENGTH AMP	L-162		10.	%	5	10.	KM				
SEA SURFACE PRESSURE	L-0										
SEA SURFACE TEMP	L-162	0.1	0.5	DEG C	0.1	10.	KM				
SEA SURFACE TEMP	L-162	0.25	0.5	DEG C	5.	100.	KM				
WATER ALBEDO	L-0	0.2	4.0	%	1.0	500.	KM				

DISCIPLINE TITLE - CLIMATE
 APPLICATION TITLE - FISHERY
 SUBAPPLICATION TITLE - OCEAN FISHERY
 TREE - 10 1. 1. 2

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
ASTRONOMICAL/STORM TIDES	10/DA		OCEAN		
ICE DRIFT RATE					
ICE/SNOW FRACTION	DA		OCEAN	ALL SEASONS	
OCEAN SURFACE CURRENT AMP	4/DA		OCEAN	ALL SEASONS	
OCEAN SURFACE CURRENT DIR	4/DA		OCEAN	ALL SEASONS	
OCEAN SURFACE CURRENT LOC	4/DA		OCEAN	ALL SEASONS	
OCEAN SURFACE WIND DIR	2/DA		OCEAN	ALL SEASONS	
OCEAN SURFACE WIND SPEED	2/DA		OCEAN	ALL SEASONS	
OCEAN SURFACE WIND SPEED	10/DA		OCEAN		
OCEAN TEMP PROF	HR-DA		OCEAN	ALL SEASONS	SHEAR L-160
OCEAN WAVE HEIGHT	10/DA		OCEAN		
OCEAN WAVE LENGTH AMP	10/DA		OCEAN		
SEA SURFACE PRESSURE			OCEAN	ALL SEASONS	
SEA SURFACE TEMP	2-10/DA		OCEAN	ALL SEASONS	
SEA SURFACE TEMP	1-10/DA		OCEAN		
WATER ALBEDO	HR-MON		OCEAN	ALL SEASONS	L-160

DISCIPLINE TITLE - CLIMATE
 APPLICATION TITLE - ENERGY DEMAND
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 10 1.1 3

PARAMETER	REFER.	DES ACCUR	BASED ACCUR.	ACCUR UNITS	LOW HORIZ RESOL	HIGH HORIZ RESOL	HORIZ RES UNITS	LOW VERT RESOL	HIGH VERT RESOL.	VERT RESOL UNITS	FRESHNESS
AIR TEMP	L-78	0.1	1	DEG C	100	100.	KM				
SOLAR CONSTANT	L-78	1 5		W/CM2							
SURFACE WATER TEMP	L-78	0 1	1.	C	100	100	KM				
VERT HUMIDITY PROF	L-78	1	30	%	100	100.	KM				
VERT TEMP PROF	L-78	0.1	2.	DEG C	100	100	KM				
VERT WIND PROF	L-78	1	3	MB	100.	100	KM				

DISCIPLINE TITLE - CLIMATE
 APPLICATION TITLE - ENERGY DEMAND
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 10 1 1 3

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
AIR TEMP	DA		GLOBAL		
SOLAR CONSTANT	DA		GLOBAL		
SURFACE WATER TEMP	DA		GLOBAL		
VERT HUMIDITY PROF	DA		GLOBAL		
VERT TEMP PROF	DA		GLOBAL		
VERT WIND PROF	DA		GLOBAL		

DISCIPLINE TITLE - CLIMATE
 APPLICATION TITLE - LAND USE
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 10. 1. 1. 4
 PARAMETER

REFER.	DES ACCUR	BASED ACCUR	ACCUR UNITS	LOW HORIZ RESOL.	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL	HIGH VERT RESOL.	VERT RESOL UNITS	FRESHNESS
L-0										
L-167				20	50.	M				
L-167				20	20	M				
L-167				1.	1	KM				
L-167				0. 05	1.	KM				

EVAPORATION RATE
 ICE/SNOW MELT
 ICE/SNOW SUBLIMATION RATE
 LAND SURFACE TEMP
 TEMP ANAMOLIES

DISCIPLINE TITLE - CLIMATE
 APPLICATION TITLE - LAND USE
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 10 1 1 4
 PARAMETER

FREQUENCY
 OF UPDATE

DURATION

AREAL
 COVERAGE

OBSERVATION
 TIME

COMMENTS

EVAPORATION RATE
 ICE/SNOW MELT
 ICE/SNOW SUBLIMATION RATE
 LAND SURFACE TEMP
 TEMP ANAMOLIES

MON-YR
 WK
 ONCE
 ONCE AS REQUIR*

LAND AREA
 LAND AREA
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ALL SEASONS
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 ALL SEASONS

DISCIPLINE TITLE - CLIMATE
 APPLICATION TITLE - CONSTRUCTION
 SUBAPPLICATION TITLE - POLAR OIL & GAS EXPLORATION
 TREE - 10.1.2.1

PARAMETER	REFER.	DES. ACCUR.	BASED ACCUR.	ACCUR. UNITS	LOW HORIZ RESOL.	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL.	VERT RESOL UNITS	FRESHNESS
ICE EXTENT	L-34	2.	5	%	5.	25	KM				
ICE FLOE LOCATION	L-34	20	100	M	20.	100.	M				
ICE MOVEMENT	L-34	0.1	1.	KM/DA	5	100	KM				
POLLUTANT CONCEN	L-34										
WIND SPEED	L-34	10.	20.	DEG	25.	50.	KM				

DISCIPLINE TITLE - CLIMATE
APPLICATION TITLE - CONSTRUCTION
SUBAPPLICATION TITLE - POLAR OIL & GAS EXPLORATION
TREE - 10 1 2.1

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
ICE EXTENT	1-3 DA		POLAR REGION		
ICE FLOE LOCATION	6HR-2DA		POLAR REGION		
ICE MOVEMENT	1-7 DA		POLAR REGION		
POLLUTANT CONCEN					
WIND SPEED	1-3 DA				POLAR REGION

DISCIPLINE TITLE - CLIMATE
 APPLICATION TITLE - CONSTRUCTION
 SUBAPPLICATION TITLE - CONSTRUCTION OVER WATER
 TREE - 10 1.2.2.1

PARAMETER	REFER	DES ACCUR.	BASED ACCUR	ACCUR. UNITS	LOW HORIZ RESOL	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL.	VERT RESOL UNITS	FRESHNESS
ASTRONOMICAL/STORM TIDES	L-0	1	2.	CM	100	100	KM				
CLOUD COVER	L-0	5.	20	%	100.	500	KM				
CURRENT LOCATION	L-0	2.	10	CM	50.	50.	KM				
CURRENT VELOCITY	L-0	2.	10.	CM/S	50	50	KM				
OCEAN SURFACE WIND SPEED	L-0				500	500.	KM				
OCEAN WAVE HEIGHT	L-0	0.2	0.5	M	100	100.	KM				
PH-BALANCE	L-0				10	50	M				
PRECIP EXTENT	L-0	10		%	500	500	KM				
PRECIP RATE	L-0	1.	2.	CM/HR	200.	200.	KM				

DISCIPLINE TITLE - CLIMATE
 APPLICATION TITLE - CONSTRUCTION
 SUBAPPLICATION TITLE - CONSTRUCTION OVER WATER
 TREE - 10.1.2.2.1

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
ASTRONOMICAL/STORM TIDES	4/DA		WATER AREA		
CLOUD COVER	DA		WATER AREA		
CURRENT LOCATION	DA-MON		WATER AREA		
CURRENT VELOCITY	DA-MON		WATER AREA		
OCEAN SURFACE WIND SPEED	4/DA		WATER AREA		
OCEAN WAVE HEIGHT	4/DA		WATER AREA		
PH-BALANCE	MON		WATER AREA		SHEAR
PRECIP EXTENT	2/DA		WATER AREA		
PRECIP RATE	DA		WATER AREA		

DISCIPLINE TITLE - CLIMATE
APPLICATION TITLE - CONSTRUCTION
SUBAPPLICATION TITLE - CONSTRUCTION OVER LAND
TREE - 10.1.2 2 2

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
CLOUD COVER	DA		LAND AREA		
LAND SURFACE TEMP	DA		LAND AREA		
PRECIP EXTENT	2/DA		LAND AREA		
PRECIP RATE	DA		LAND AREA		
RELATIVE HUMIDITY	DA		LAND AREA		
SURFACE WIND SPEED	2/DA		LAND AREA		
VISIBILITY	2/DA		LAND AREA		

DISCIPLINE TITLE - CLIMATE
 APPLICATION TITLE - CONSTRUCTION
 SUBAPPLICATION TITLE - CONSTRUCTION OVER LAND
 TREE - 10.1.2.2.2

PARAMETER	REFER.	DES. ACCUR	BASED ACCUR	ACCUR UNITS	LOW HORIZ RESOL.	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL	HIGH VERT RESOL.	VERT RESOL UNITS	FRESHNESS
CLOUD COVER	L-0	5.	20	%	200	200.	KM				
LAND SURFACE TEMP	L-0	0.1	1	DEG C	200	200	KM				
PRECIP EXTENT	L-0	10.		%	200	200	KM				
PRECIP RATE	L-0	1	2	CM/HR	200	200.	KM				
RELATIVE HUMIDITY	L-0	1	3.	%	200	200.	KM				
SURFACE WIND SPEED	L-0	1.	3.	CM/S	200.	200	KM				
VISIBILITY	L-0				200	200	KM				

DISCIPLINE TITLE - CLIMATE
 APPLICATION TITLE - HUMAN HEALTH
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 10.1.3.1

PARAMETER	REFER.	DES. ACCUR	BASED ACCUR	ACCUR. UNITS	LOW HORIZ RESOL	HIGH HORIZ RESOL	HORIZ RES UNITS	LOW VERT RESOL	HIGH VERT RESOL	VERT RESOL UNITS	FRESHNESS
AIR TEMP	L-0	0.1	1.	DEG C	100	100	KM				
CO	L-0	0.001	0.1	PPM	100.	100.	KM				
CO2	L-0	0.5	10	PPM	100.	100	KM	2.	2	KM	
PRECIP EXTENT	L-0	10		%	100.	100	KM				
RELATIVE HUMIDITY	L-0	1.	30.	%	100	100.	KM				
SOLAR CONSTANT	L-0	1.5	5.	W/CM2	100	100	KM				
SO2	L-0	0.01	10.	PPB	100	100	KM	2	2	KM	
SURFACE PRESSURE	L-0	1.	3.	MB	100	100.	KM				
SURFACE WIND	L-0	1.	3	MB	100.	100.	KM				

DISCIPLINE TITLE - CLIMATE
APPLICATION TITLE - HUMAN HEALTH
SUBAPPLICATION TITLE - NO TITLE
TREE - 10 1.3 1
PARAMETER

FREQUENCY
OF UPDATE

DURATION

AREAL
COVERAGE

OBSERVATION
TIME

COMMENTS

AIR TEMP	DA				
CO	DA				
CO2	DA				
PRECIP EXTENT	DA				
RELATIVE HUMIDITY	DA				
SOLAR CONSTANT	DA				
SO2	DA				
SURFACE PRESSURE	DA				
SURFACE WIND	DA				

DISCIPLINE TITLE - CLIMATE
 APPLICATION TITLE - TRANSPORTATION
 SUBAPPLICATION TITLE - AIR TRANSPORTATION
 TREE - 10.1.3.2.1

PARAMETER	REFER.	DES. ACCUR.	BASED ACCUR	ACCUR. UNITS	LOW HORIZ RESOL	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL.	VERT RESOL UNITS	FRESHNESS
ICE EXTENT	L-78	1.		M	10	10	KM				
ICE/SNOW SURFACE TEMP	L-0	0.1	1.	DEG C	10.	10	KM				
PRECIP EXTENT	L-78		10.	%	10	10.	KM				
PRECIP RATE	L-0	0.5	2.	CM/HR	10	10.	KM				
PRECIP TYPE	L-78				10.	10.	KM				
RELATIVE HUMIDITY	L-78	10	30	%	10.	10	KM				
SNOW COVER	L-78		1.	M	10.	10.	KM				
SURFACE TEMP	L-78	0.1	1.	DEG C	10.	10.	KM				
VISIBILITY	L-78	10.	4.	LEVELS	10.	10	KM				

DISCIPLINE TITLE - CLIMATE
APPLICATION TITLE - TRANSPORTATION
SUBAPPLICATION TITLE - AIR TRANSPORTATION
TREE - 10 1.3.2 1

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
ICE EXTENT	HR				
ICE/SNOW SURFACE TEMP					
PRECIP EXTENT	MN				
PRECIP RATE	MN				
PRECIP TYPE	HR				
RELATIVE HUMIDITY	MN				RAIN/HAIL/SNOW
SNOW COVER	HR				
SURFACE TEMP	MN				
VISIBILITY	HR				

DISCIPLINE TITLE - CLIMATE
 APPLICATION TITLE - TRANSPORTATION
 SUBAPPLICATION TITLE - RAILROAD TRANSPORTATION
 TREE - 10. 1. 3. 2 2

PARAMETER	REFER.	DES. ACCUR.	BASED ACCUR.	ACCUR UNITS	LOW HORIZ RESOL.	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL.	VERT RESOL UNITS	FRESHNESS
ICE EXTENT	L-78	1		M	1.	1.	KM				
ICE/SNOW SURFACE TEMP	L-0	0.1	1	DEG C	1.	1.	KM				
SNOW COVER	L-78	1.		M	1.	1.	KM				

DISCIPLINE TITLE - CLIMATE
 APPLICATION TITLE - TRANSPORTATION
 SUBAPPLICATION TITLE - RAILROAD TRANSPORTATION
 TREE - 10 1.3 2 2
 PARAMETER

FREQUENCY
 OF UPDATE

DURATION

AREAL
 COVERAGE

OBSERVATION
 TIME

COMMENTS

ICE EXTENT
 ICE/SNOW SURFACE TEMP
 SNOW COVER

HR
 HR
 HR

DISCIPLINE TITLE - CLIMATE
 APPLICATION TITLE - TRANSPORTATION
 SUBAPPLICATION TITLE - WATER TRANSPORTATION
 TREE - 10.1.3.2.4

PARAMETER	REFER	DES ACCUR	BASD ACCUR	ACCUR. UNITS	LOW HORIZ RESOL	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL.	VERT RESOL UNITS	FRESHNESS
ICE FLOE SIZE	L-78	20.	100.	M	20	100	M				
ICEBERG LOCATION	L-78	5	100.	M	1.	100.	M				
OCEAN CURRENT	L-78	1.	5	CM/S	1.	100	KM				
OCEAN WAVE HEIGHT	L-0	0.2	0.5	M	1.	100.	KM				
SHIP LOCATION	L-0	1.	100	M	1	100	M				
SURFACE WATER TEMP	L-78	0.1	1.	DEG C	1	100	KM				
VISIBILITY	L-78	10.	4	LEVELS	1.	100.	KM				

DISCIPLINE TITLE - CLIMATE
 APPLICATION TITLE - TRANSPORTATION
 SUBAPPLICATION TITLE - WATER TRANSPORTATION
 TREE - 10.1.3 2.4

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
ICE FLOE SIZE	4/DA-DA		WATER AREA		
ICEBERG LOCATION	4/DA-DA		WATER AREA		
OCEAN CURRENT	HR-DA		WATER AREA		
OCEAN WAVE HEIGHT	4/DA-DA		WATER AREA		
SHIP LOCATION	4/DA-DA		WATER AREA		
SURFACE WATER TEMP	HR-DA		WATER AREA		
VISIBILITY	HR-DA		WATER AREA		

DISCIPLINE TITLE - CLIMATE
 APPLICATION TITLE - DEFENSE STRATEGIC PLANNING
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 10.1.4.1

PARAMETER	REFER.	DES ACCUR.	BASED ACCUR.	ACCUR. UNITS	LOW HORIZ RESOL.	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL.	VERT RESOL UNITS	FRESHNESS
CLOUD COVER	L-163				0 5	0 5	KM				
CLOUD LEVEL	L-163				0.5	0.5	KM	30.	300.	M	
CLOUD TOP TEMP	L-0	0.1	2.0	DEG C	100.	100.	KM				
CLOUD/ATMOS ALBEDO	L-163	5.		%	45.	45.	KM				
LAND ALBEDO	L-163	5.0		%	45 0	45.	KM				
OCEAN SURFACE WIND DIR	L-163				10.	25.	KM				
OCEAN SURFACE WIND SPEED	L-163	5.	20.	%	10.	25.	KM				
OCEAN TEMP PROF	L-164	0.25	2.0	DEG C	10.	100.	KM				
PRECIP RATE	L-163		0.3	MM/HR	5.		KM				
PRECIP WATER PROF	L-163		0.3	MM	0.5	0.5	KM	30.	300.		
SURFACE AIR TEMP	L-163	0.50	1.	DEG C	10.	10.	KM				
SURFACE WATER TEMP	L-163	0.25	0.8	DEG C	10.	25.	KM				
VERT HUMIDITY PROF	L-163	1.0		%	100.	100.	KM	30.	300.	M	
VERT TEMP PROF	L-163		1.	DEG C	100.	100.	KM	30.	400.	M	
VERT WIND CONVECT DUCTS LOC	L-163				45.	45.	KM	300.	600.	M	
VERT WIND CONVECT DUCTS SIZE	L-163		1.5	M/S	45.	45.	KM	300.	600.	M	
VERT WIND PROF	L-163	2.0		M/S	10.	10.	KM	30.	600.	M	
VISIBILITY	L-163				10.	10.	KM	150.	300.		
WATER ALBEDO	L-163	5.		%	45.	45.	KM				

DISCIPLINE TITLE - CLIMATE
 APPLICATION TITLE - DEFENSE STRATEGIC PLANNING
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 10 1 4 1

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
CLOUD COVER	30 MN		GLOBAL	ALL SEASONS	
CLOUD LEVEL	30 MN		GLOBAL	ALL SEASONS	
CLOUD TOP TEMP	3 HR-DA		GLOBE	ALL SEASONS	
CLOUD/ATMOS ALBEDO	3 HR		GLOBE	ALL SEASONS	L-160
LAND ALBEDO	3 HR		GLOBAL	ALL SEASONS	
OCEAN SURFACE WIND DIR	2/DA-8/DA		GLOBAL	ALL SEASONS	
OCEAN SURFACE WIND SPEED	2/DA-8/DA		GLOBAL	ALL SEASONS	
OCEAN TEMP PROF	2/DA-3 DA		GLOBE	ALL SEASONS	
PRECIP RATE	3 HR		GLOBAL	ALL SEASONS	
PRECIP WATER PROF	30 MN		GLOBAL	ALL SEASONS	
SURFACE AIR TEMP			GLOBE	ALL SEASONS	
SURFACE WATER TEMP	3 HR-3 DA		GLOBE	ALL SEASONS	
VERT HUMIDITY PROF	3 HR		GLOBAL	ALL SEASONS	
VERT TEMP PROF	3 HR		GLOBE	ALL SEASONS	
VERT WIND CONVECT DUCTS LOC	HR		GLOBAL	ALL SEASONS	
VERT WIND CONVECT DUCTS SIZE	HR		GLOBAL	ALL SEASONS	
VERT WIND PROF	ON CALL		GLOBAL	ALL SEASONS	
VISIBILITY	HR		GLOBAL	ALL SEASONS	
WATER ALBEDO	3 HR		GLOBAL	ALL SEASONS	

DISCIPLINE TITLE - CLIMATE
 APPLICATION TITLE - MILITARY
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 10.1.4.2

OPERATION PLANNING

PARAMETER	REFER	DES ACCUR.	BASD ACCUR	ACCUR UNITS	LOW HORIZ RESOL	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL.	VERT RESOL UNITS	FRESHNESS
CLOUD COVER	L-163				0.5	0.5	KM				
CLOUD LEVEL	L-163				0.5	0.5	KM				
CLOUD/ATMOS ALBEDO	L-163		5.	%	10.	10	KM	30.	300.	M	
LAND ALBEDO	L-163		5	%	10.	10	KM				
OCEAN SURFACE WIND DIR	L-163	5.	20	%	10	25	KM				
OCEAN SURFACE WIND SPEED	L-163	5	20.	%	10	25	KM				
OCEAN TEMP PROF	L-164	0.25	2.	DEG C	10.	100.	KM				
PRECIP RATE	L-163		0.3	MM/HR	1.	1	KM				
PRECIP WATER PROF	L-163		0.3	MM	0.5	0.5	KM	30.	300	M	
SURFACE WATER TEMP	L-163	0.25	0.8	DEG C	10	25	KM				
VERT HUMIDITY PROF	L-163		1	%	10	10	KM	30.	300.	M	
VERT TEMP PROF	L-163		1.	DEG C	10.	10.	KM	30	100.	M	
VERT WIND CONVECT DUCTS LOC	L-163				10.	10	KM	300.	600.	M	
VERT WIND CONVECT DUCTS SIZE	L-163				10.	10.	KM	300.	600.	M	
VERT WIND PROF	L-163	5		%	10	10	KM	30.	600	M	
VISIBILITY	L-163		10	KM	150	300.	M				
WATER ALBEDO	L-163		5	%	10	10	KM				

DISCIPLINE TITLE - CLIMATE
 APPLICATION TITLE - MILITARY OPERATION PLANNING
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 10 1 4 2

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
CLOUD COVER	ON CALL		LOCAL	ALL SEASONS	
CLOUD LEVEL	ON CALL		LOCAL	ALL SEASONS	
CLOUD/ATMOS ALBEDO	HR		LOCAL	ALL SEASONS	
LAND ALBEDO	HR		LOCAL	ALL SEASONS	
OCEAN SURFACE WIND DIR	ON CALL/3 HR		LOCAL	ALL SEASONS	
OCEAN SURFACE WIND SPEED	ON CALL/3 HR		LOCAL	ALL SEASONS	
OCEAN TEMP PROF	2/DA-3 DA		LOCAL	ALL SEASONS	
PRECIP RATE	ON CALL		LOCAL	ALL SEASONS	
PRECIP WATER PROF	ON CALL		LOCAL	ALL SEASONS	
SURFACE WATER TEMP	HR-3 DA		LOCAL	ALL SEASONS	
VERT HUMIDITY PROF	HR		LOCAL	ALL SEASONS	
VERT TEMP PROF	HR		LOCAL	ALL SEASONS	
VERT WIND CONVECT DUCTS LOC	ON CALL		LOCAL	ALL SEASONS	
VERT WIND CONVECT DUCTS SIZE	ON CALL		LOCAL	ALL SEASONS	
VERT WIND PROF	ON CALL		LOCAL	ALL SEASONS	
VISIBILITY	HR		LOCAL	ALL SEASONS	
WATER ALBEDO	HR		LOCAL	ALL SEASONS	

DISCIPLINE TITLE - CLIMATE
 APPLICATION TITLE - GENERAL CIRCULATION MODEL
 SUBAPPLICATION TITLE - ATMOSPHERE-LAND COUPLING ASSESMENT
 TREE - 10 2 1 1 4

PARAMETER	REFER	DES ACCUR.	BASD ACCUR	ACCUR. UNITS	LOW HORIZ RESOL.	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL.	VERT RESOL UNITS	FRESHNESS
EVAPOTRANSPIRATION	L-1	10.		W/M2	500	500.	KM				1-2 WK
LAND SURFACE TEMP	L-1	0.1		DEG C	200	500.	KM				1-2 WK
PRECIP RATE	L-1	10.		%	500.	500.	KM				1-2 WK
RUNOFF VOLUME	L-1										
SOIL MOISTURE	L-1	0.05		CC/CC	500.	500.	KM				
SOIL TEMP	L-1										
SOIL TYPE	L-1										
SURFACE AIR TEMP	L-1	0.2		DEG C	200.	500	KM				1-2 WK
VEGETATIVE EXTENT	L-1	2.0	5.	%	500.	500.	KM				

DISCIPLINE TITLE - CLIMATE
 APPLICATION TITLE - GENERAL CIRCULATION MODEL
 SUBAPPLICATION TITLE - ATMOSPHERE-LAND COUPLING ASSESMENT
 TREE - 10 2.1 1 4

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
EVAPOTRANSPIRATION	2/DA				
LAND SURFACE TEMP	MON				
PRECIP RATE	2/DA				
RUNOFF VOLUME					
SOIL MOISTURE	MON				
SOIL TEMP					
SOIL TYPE					
SURFACE AIR TEMP	DA				
VEGETATIVE EXTENT	MON				L-160

DISCIPLINE TITLE - CLIMATE
 APPLICATION TITLE - GENERAL CIRCULATION MODEL
 SUBAPPLICATION TITLE - ATMOSPHERE-CRYOSPHERE COUPLING ASSESSMENT
 TREE - 10 2.1.1 5

PARAMETER	REFER.	DES. ACCUR.	BASED ACCUR.	ACCUR. UNITS	LOW HORIZ RESOL.	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL.	VERT RESOL UNITS	FRESHNESS
AIR TEMP	L-1	0.2		DEG C	500	500.	KM				2 WK
ICE/SNOW ALBEDO	L-1	2.0		%	500	500.	KM				2 WK
ICE/SNOW EXTENT	L-1				1.	1.	M				2 WK
ICE/SNOW SURFACE TEMP	L-1	0.1		DEG C	200	500	KM				2 WK
ICE/SNOW THICKNESS	L-1	10		CM	1	3	KM				2 WK

DISCIPLINE TITLE - CLIMATE
 APPLICATION TITLE - GENERAL CIRCULATION MODEL
 SUBAPPLICATION TITLE - ATMOSPHERE-CRYOSPHERE COUPLING ASSESSMENT
 TREE - 10 2 1 1.5

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
AIR TEMP	DA				
ICE/SNOW ALBEDO	MON				
ICE/SNOW EXTENT	DA				
ICE/SNOW SURFACE TEMP	MON				
ICE/SNOW THICKNESS	MON				

[illegible]

DISCIPLINE TITLE - CLIMATE
 APPLICATION TITLE - GENERAL CIRCULATION MODEL
 SUBAPPLICATION TITLE - CRYOSPHERE-OCEAN COUPLING ASSESSMENT
 TREE - 10 2 1 1 6

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
AIR TEMP	DA				
ICE CONCEN	MON				
ICE/SNOW SURFACE TEMP	MON				
ICE/SNOW THICKNESS	MON				
SALINITY	HR-YR				
SEA SURFACE TEMP	DA				
UPPER OCEAN LAYER TEMP					

WATER

DISCIPLINE TITLE - CLIMATE
APPLICATION TITLE - RADIATIVE-CONVECTIVE EQUILIBRIUM MODELS
SUBAPPLICATION TITLE - NO TITLE
TREE - 10.2 1 2.1

PARAMETER

REFER.

DES
ACCUR.

BASED
ACCUR.

ACCUR
UNITS

LOW
HORIZ
RESOL

HIGH
HORIZ
RESOL.

HORIZ
RES
UNITS

LOW
VERT
RESOL.

HIGH
VERT
RESOL

VERT
RESOL
UNITS

FRESHNESS

ATMOSPHERIC DUST CONTENT	L-78
CLOUD COVER	L-78
CLOUD LEVEL	L-78
CLOUD THICKNESS	L-78
CLOUD/ATMOS ALBEDO	L-78
CO2 MIXING RATIO	L-78
LONGWAVE RADIATION	L-78
OZONE PROF	L-78
SOLAR FLUX	L-78
SURFACE TEMP	L-78
VERT TEMP PROF	L-78
WATER VAPOR PROF	L-78

DISCIPLINE TITLE - CLIMATE
 APPLICATION TITLE - RADIATIVE-CONVECTIVE EQUILIBRIUM MODELS
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 10 2 1.2.1

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
ATMOSPHERIC DUST CONTENT					
CLOUD COVER					
CLOUD LEVEL					
CLOUD THICKNESS					
CLOUD/ATMOS ALBEDO					
CO2 MIXING RATIO					
LONGWAVE RADIATION					
OZONE PROF					
SOLAR FLUX					
SURFACE TEMP					
VERT TEMP PROF					
WATER VAPOR PROF					

DISCIPLINE TITLE - CLIMATE
 APPLICATION TITLE - RADIATIVE-CONVECTIVE EQUILIBRIUM MODELS
 SUBAPPLICATION TITLE - A COUPLED RADIATIVE-CONVECTIVE PHOTOCHEMICAL MODEL
 TREE - 10.2.1.2.3

PARAMETER	REFER.	DES. ACCUR	BASED ACCUR.	ACCUR UNITS	LOW HORIZ RESOL	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL	VERT RESOL UNITS	FRESHNESS
AEROSOLS	L-77	5.0	25.0	%	100.0	100.0	KM	3.0	3.0	KM	
CFCL0	L-77	2	20.	%	100	100	KM	3.	3.	KM	
CF2CL2	L-77	2.	20.	%	100.	100.	KM	3.	3.	KM	
CL0	L-77	20	20.	%	100	100		3.	3.	KM	
CLOUD COVER	L-77	1.0	20.0	%	100.0	100.0	KM				
CLOUD/ATMOS ALBEDO	L-77	0.2	30.0	%	100.0	100.0	KM				
CO	L-77	2.0	20.0	%	100.0	100.0	KM	3.0	3.0	KM	
CO2	L-77	2.0	20.0	%	100.0	100.0	KM	3.0	3.0	KM	
H2O	L-77	2.0	50.0	%	100.0	100.0	KM	3.0	3.0	KM	
NOX	L-77	20.0	20.0	%	100.0	100.0	KM	3.0	3.0	KM	
OZONE	L-77	2.0	20.0	%	100	100	KM	3	3.0	KM	
PRECIP EXTENT	L-77		10.0	%	100.0	100.0	KM				
SOLAR CONSTANT	L-77	1.5	5.0	W/CM2	100.0	100.0	KM				
VERT PRESSURE PROF	L-77	1.0	3.0	MB	100.0	100.0	KM	3.0	3.0	KM	
VERT TEMP PROF	L-77	0.1	2.0	DEG C	100.0	100.0	KM	3.0	3.0	KM	
VERT WIND PROF	L-77	1.0	3.0	MB	100.0	100.0	KM	3.0	3.0	KM	

DISCIPLINE TITLE - CLIMATE
 APPLICATION TITLE - RADIATIVE-CONVECTIVE EQUILIBRIUM MODELS
 SUBAPPLICATION TITLE - A COUPLED RADIATIVE-CONVECTIVE PHOTOCHEMICAL MODEL
 TREE - 10 2 1.2.3

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
AEROSOLS	DA		GLOBAL		
CFCLD	DA		GLOBAL		
CF2CL2	DA		GLOBAL		
CLD	DA		GLOBAL		
CLOUD COVER	DA		GLOBAL		
CLOUD/ATMOS ALBEDO	DA		GLOBAL		
CO	DA		GLOBAL		
CO2	DA		GLOBAL		
H2O	DA		GLOBAL		
NOX	DA		GLOBAL		
OZONE	DA		GLOBAL		
PRECIP EXTENT	2/DA		GLOBAL		
SOLAR CONSTANT	DA		GLOBAL		
VERT PRESSURE PROF	DA		GLOBAL		
VERT TEMP PROF	DA		GLOBAL		
VERT WIND PROF	DA		GLOBAL		


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DISCIPLINE TITLE - CLIMATE
APPLICATION TITLE - HISTORICAL DATA ANALYSIS
SUBAPPLICATION TITLE - DIAGNOSTIC STUDIES OF PAST CLIMATE
TREE - 10 2 2.1.1
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PARAMETER	REFR.	DES. ACCUR.	BASED ACCUR.	ACCUR UNITS	LOW HORIZ. RESOL.	HIGH HORIZ. RESOL.	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL.	VERT RESOL UNITS	FRESHNESS
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ASH & SAND ACCUM RATE	L-60
BENTHIC FOSSILS	L-60
FOSSIL PLANKTON COMPOS	L-60
ICE SHEET LOCATION	L-60
OXYGEN	L-60
POLLEN TYPE CONCEN	L-60
SEDIMENT	L-60
SOIL TYPE	L-60
TOPOGRAPHIC FEATURES	L-60
TOPOGRAPHIC FEATURES	L-60
WATER LEVEL	L-60

DISCIPLINE TITLE - CLIMATE
 APPLICATION TITLE - HISTORICAL
 SUBAPPLICATION TITLE - DIAGNOSTIC
 TREE - 10 2 2 1 1

DATA ANALYSIS
 STUDIES OF PAST CLIMATE

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
ASH & SAND ACCUM RATE	500 YR	2 E5 YRS	GLOBAL OCEAN		
BENTHIC FOSSILS	1 E3 YR	1 E6 YR	GLOBAL OCEAN		
FOSSIL PLANKTON COMPOS	500 YR	2 E5 YR	GLOBAL OCEAN		
ICE SHEET LOCATION		2 SE4 YR	MID-HIGH LATITUDES		
OXYGEN	VARIABLE	1 E5 YR	ANTARTICA GRANLND		
POLLEN TYPE CONCEN	1-10 YR	1 E4YRS	MID-LAT CONTINENTS		
SEDIMENT	200 YR	1 E4 YR	50S-70N		BQG&LAKE
SOIL TYPE	200 YR	1 E6 YR	LOWER & MID-LATITUT*		
TOPOGRAPHIC FEATURES		4 E4 YR	STABLE COASTS, OCEAN*		COASTAL
TOPOGRAPHIC FEATURES		5 E4 YR	45S-70N		
WATER LEVEL	1-100 YR	5 E4 YR	LOWER&MID LATITUDES		LAKE

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DISCIPLINE TITLE - CLIMATE
APPLICATION TITLE - RADIATION AND THE GLOBAL ENERGY BALANCE
SUBAPPLICATION TITLE - EARTH RADIATION BUDGET ASSESSMENT
TREE - 10. 2. 2. 3 1

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PARAMETER	REFER.	DES. ACCUR	BASED ACCUR.	ACCUR UNITS	LOW HORIZ RESOL	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL	VERT RESOL UNITS	FRESHNESS
CLOUD/ATMOS ALBEDO	L-1		2	%	500	500	KM				2 WK
SOLAR CONSTANT	L-1		1 5	W/CM2							2 WK

DISCIPLINE TITLE - CLIMATE
APPLICATION TITLE - RADIATION AND THE GLOBAL ENERGY BALANCE
SUBAPPLICATION TITLE - EARTH RADIATION BUDGET ASSESSMENT
TREE - 10 2 2 3 1

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
CLOUD/ATMOS ALBEDO	MON				
SOLAR CONSTANT	DA				

DISCIPLINE TITLE - CLIMATE
 APPLICATION TITLE - RADIATION AND THE GLOBAL ENERGY BALANCE
 SUBAPPLICATION TITLE - SEASONAL RADIATION BALANCE
 TREE - 10 2 2.3.2

PARAMETER	REFER.	DES ACCUR.	BASD ACCUR.	ACCUR. UNITS	LOW HORIZ RESOL.	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL.	VERT RESOL UNITS	FRESHNESS
CLOUD COVER	L-26	5 0	5.0	%	100 0	100.0	KM				
CLOUD DIURNAL VARIATION	L-26	5 0	5.0	%	100 0	100.0	KM				
CLOUD/ATMOS ALBEDO	L-26	.01	.03		100.	100	KM				
HEAT CONTENT OF UPPER LAYER	L-26	1 0	3.0	KCAL/*	200.0	200.0	M				
ICE EXTENT	L-26				50.0	50.0	KM				
LAND SURFACE TEMP	L-26	1.0		DEG C	100.0	100.0	KM				
NET RADIATION	L-26	2.0	15 0	W/M2	100.0	100.	KM				
OCEAN WIND STRESS	L-26	0.1	0.4	DYNE/*	100.0	100	KM				
OZONE PROF	L-26	0.5		PPM	100.0		KM	2.0	2.0	KM	
PRECIP OVER LAND	L-26	1.0	3.0	MM/DA	100.0	100.0	KM				
PRECIP OVER SEA	L-26				100.0	100.0	KM				
RELATIVE HUMIDITY	L-26	10.0		%	100.0	100.0	KM				
RUNOFF VOLUME	L-26	10.0		%	100.0	100.0	KM				
SEA SURFACE TEMP	L-26	0.5	1.5	DEG C	100.0	100.0	KM				
SNOW COVER	L-26				100.0	100	KM				
SOIL MOSITURE	L-26	10.0		%	100.0	100.0	KM				

DISCIPLINE TITLE - CLIMATE
 APPLICATION TITLE - RADIATION AND THE GLOBAL ENERGY BALANCE
 SUBAPPLICATION TITLE - SEASONAL RADIATION BALANCE
 TREE - 10 2.2 3 2

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
CLOUD COVER	5 DA		GLOBAL		
CLOUD DIURNAL VARIATION	5 DA		GLOBAL		
CLOUD/ATMOS ALBEDO	5 DA		GLOBAL		
HEAT CONTENT OF UPPER LAYER	5 DA		GLOBAL		
ICE EXTENT	5 DA		GLOBAL		PRESENCE/ABSENCE
LAND SURFACE TEMP	5 DA		GLOBAL		
NET RADIATION	5 DA		GLOBAL		
OCEAN WIND STRESS	5 DA		GLOBAL		
OZONE PROF	5 DA		GLOBAL		
PRECIP OVER LAND	5 DA		GLOBAL		
PRECIP OVER SEA	5 DA		GLOBAL		
RELATIVE HUMIDITY	5 DA		GLOBAL		OVER LAND
RUNOFF VOLUME	15-30 DA		GLOBAL		
SEA SURFACE TEMP	5 DA		GLOBAL		
SNOW COVER	5 DA		GLOBAL		PRESENCE/ABSENCE
SOIL MOSITURE	5 DA		GLOBAL		

DISCIPLINE TITLE - CLIMATE
 APPLICATION TITLE - RADIATION AND THE GLOBAL ENERGY BALANCE
 SUBAPPLICATION TITLE - LONG-TERM RADIATION BALANCE
 TREE - 10.2.2.3.3

PARAMETER	REFER.	DES ACCUR	BASD ACCUR	ACCUR UNITS	LOW HORIZ RESOL	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL.	VERT RESOL UNITS	FRESHNESS
AEROSOLS	L-26										
CLOUD COVER	L-26										
CO2	L-26	0.1		PPM	100.0	100	KM				
ICE/SNOW EXTENT	L-26				100.0	100.0	KM				
NET RADIATION	L-26	2.0	15.0	W/M2	100.0	300.0	KM				
OZONE PROF	L-26	0.5		PPM	100.0	100.0	KM	2.0	2.0	KM	
SOLAR CONSTANT	L-26	2.0	10.0	W/CM2	100.0	100.0	KM				

DISCIPLINE TITLE - CLIMATE
 APPLICATION TITLE - RADIATION AND THE GLOBAL ENERGY BALANCE
 SUBAPPLICATION TITLE - LONG-TERM RADIATION BALANCE
 TREE - 10 2.2.3 3
 PARAMETER

FREQUENCY
 OF UPDATE

DURATION

AREAL
 COVERAGE

OBSERVATION
 TIME

COMMENTS

AEROSOLS
 CLOUD COVER
 CO2
 ICE/SNOW EXTENT
 NET RADIATION
 OZONE PROF
 SOLAR CONSTANT

15 DA
 5-15 DA
 15 DA
 10-30 DA
 DA

GLOBAL
 GLOBAL
 GLOBAL
 GLOBAL
 GLOBAL
 GLOBAL

PRESENCE/ABSENCE

DISCIPLINE TITLE - CLIMATE
 APPLICATION TITLE - RADIATION AND THE GLOBAL ENERGY BALANCE
 SUBAPPLICATION TITLE - CLIMATIC EFFECTS OF ATMOS CONCENTRATION OF CO2
 TREE - 10 2 3. 1. 5

PARAMETER	REFER.	DES. ACCUR.	BASED ACCUR	ACCUR. UNITS	LOW HORIZ RESOL	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL	HIGH VERT RESOL	VERT RESOL UNITS	FRESHNESS
AIR TEMP	L-51	0 1	0 5	DEG C	100	100.	KM				
CLOUD COVER	L-51	1	20	%	100	100.	KM				
CO2	L-51	0. 5	10	PPM	100	100	KM	3	3	KM	
EVAPORATION RATE	L-51	20		W/M2	100.	100.	KM				
PRECIP RATE	L-51	0 1		CM/CM2	100	100	KM				
SOIL MOISTURE	L-51	0 5		CC/CC	100	100.	KM				
WATER CONTENT	L-51	1. 0	30.	%	100	100.	KM				

DISCIPLINE TITLE - CLIMATE
 APPLICATION TITLE - RADIATION AND THE GLOBAL ENERGY BALANCE
 SUBAPPLICATION TITLE - CLIMATIC EFFECTS OF ATMOS CONCENTRATION OF CO2
 TREE - 10.2 3 1.5

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
AIR TEMP	DA		GLOBAL		
CLOUD COVER	DA		GLOBAL		
CO2	DA		GLOBAL		
EVAPORATION RATE	WK		GLOBAL		
PRECIP RATE	DA		GLOBAL		
SOIL MOISTURE	WK		GLOBAL		
WATER CONTENT	DA		GLOBAL		

DISCIPLINE TITLE - CLIMATE
 APPLICATION TITLE - TRANSPORTATION
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 10.3 1

PARAMETER	REFER	DES ACCUR.	BASD ACCUR	ACCUR. UNITS	LOW HORIZ RESOL.	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL	HIGH VERT RESOL	VERT RESOL UNITS	FRESHNESS
CLOUD COVER	L-78	1	20	%	100.		KM		100		
CLOUD LEVEL	L-78	0.5	1000	M	100.	100.	KM				
CLOUD TYPE	L-78				100.	100.	KM				
VERT WIND CONVECT DUCTS LOC	L-0	5		CM/B/D	100	100.	KM				
VERT WIND CONVECT DUCTS SIZE	L-0	5.		CM/B/D	100	100	KM				
VERT WIND PROF	L-78	1.	3.	MB	100 0	100.	KM				
VISIBILITY	L-78	10.	4	LEVELS	100	100.	KM				

DISCIPLINE TITLE - CLIMATE
APPLICATION TITLE - TRANSPORTATION
SUBAPPLICATION TITLE - NO TITLE
TREE - 10.3.1

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
CLOUD COVER	MN			.	
CLOUD LEVEL	MN				
CLOUD TYPE	MN				
VERT WIND CONVECT DUCTS LOC	MN				CUMULUS, CIRRUS, ETC
VERT WIND CONVECT DUCTS SIZE	MN				
VERT WIND PROF	MN				
VISIBILITY	MN				

Geodynamics Applications
Data Sheets

DISCIPLINE TITLE - GEODYNAMICS
 APPLICATION TITLE - GEOLOGICAL MAPPING
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 11.1.1

PARAMETER	REFER.	DES. ACCUR.	BASD ACCUR.	ACCUR. UNITS	LOW HORIZ RESOL.	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL.	VERT RESOL UNITS	FRESHNESS
ALTERATION FEATURES	Q-17				5.0	100.0	M				MON
COLOR, TONAL PATTERNS	Q-1				100.0	100.0	M				MON
COLOR, TONAL PATTERNS	Q-8				100.0	100.0	M				MON
COLOR, TONAL PATTERNS	Q-17				5.0	100.0	M				MON
COLOR, TONAL PATTERNS	Q-14	95.		%	10.0	100.0	M				MON
COLOR, TONAL PATTERNS	Q-9				10.0	100.0	M				MON
DRAINAGE PATTERNS	Q-1				100.0	100.0	M				MON
DRAINAGE PATTERNS	Q-2	95.		%	30.0	100.0	M				MON
DRAINAGE PATTERNS	Q-8		1.5	KM	100.0	100.0	M				MON
DRAINAGE PATTERNS	Q-17				5.0	100.0	M				MON
EROSION TYPE	Q-8				100.0	100.0	M				MON
FAULTS, FRACTURES	Q-1				100.0	100.0	M				MON
FAULTS, FRACTURES	Q-2	95.		%	30.0	100.0	M				MON
FAULTS, FRACTURES	Q-8		1.5	KM	100.0	100.0	M				MON
FAULTS, FRACTURES	Q-14		85.	%	10.0	100.0	M				MON
FAULTS, FRACTURES	Q-9				10.0	100.0	M				MON
LAND COVER TYPE	Q-2	95.		%	30.0	100.0	M				MON
LAND COVER TYPE	Q-17				5.0	100.0	M				MON
LINEAMENTS	Q-1				100.0	100.0	M				MON
LINEAMENTS	Q-1				100.0	100.0	M				MON
LINEAMENTS	Q-8		1.5	KM	100.0	100.0	M				MON
LINEAMENTS	Q-17				5.0	100.0	M				MON
LINEAMENTS	Q-14	85.		%	10.0	100.0	M				MON
LINEAMENTS	Q-2	95.		%	30.0	100.0	M				MON
LINEAMENTS	Q-9				10.0	100.0	M				MON
ROCK TYPE	Q-1				100.0	100.0	M				MON
ROCK TYPE	Q-2	95.		%	30.0	100.0	M				MON
ROCK TYPE	Q-17				5.0	100.0	M				MON
ROCK TYPE	Q-14	90.		%	10.0	100.0	M				MON
ROCK TYPE	Q-9				10.0	100.0	M				MON
SLOPE, RELIEF	Q-1				100.0	100.0	M				MON
SOIL TYPE	Q-2	95.		%	30.0	100.0	M				MON
STRATA ATTITUDE	Q-17				5.0	100.0	M				MON
STRATA ATTITUDE	Q-9				10.0	100.0	M				MON
STRUCTURAL FEATURES	Q-1				100.0	100.0	M				MON
STRUCTURAL FEATURES	Q-2	95.		%	30.0	100.0	M				MON
STRUCTURAL FEATURES	Q-8		1.5	KM	100.0	100.0	M				MON
STRUCTURAL FEATURES	Q-17				5.0	100.0	M				MON
STRUCTURAL FEATURES	Q-14	90.		%	10.0	100.0	M				MON
STRUCTURAL FEATURES	Q-9				10.0	100.0	M				MON
TERRAIN TYPE	Q-1				100.0	100.0	M				MON
TERRAIN TYPE	Q-2	95.		%	30.0	100.0	M				MON
TERRAIN TYPE	Q-9				10.0	100.0	M				MON
TOPOGRAPHIC FEATURES	Q-1				100.0	100.0	M				MON
TOPOGRAPHIC FEATURES	Q-8		1.5	KM	100.0	100.0	M				MON
TOPOGRAPHIC FEATURES	Q-17				5.0	100.0	M				MON
TOPOGRAPHIC FEATURES	Q-14	95.		%	10.0	100.0	M				MON
TOPOGRAPHIC FEATURES	Q-9				10.0	100.0	M				MON
VEGETATIVE COVER TYPE	Q-17				5.0	100.0	M				MON

DISCIPLINE TITLE - GEODYNAMICS
 APPLICATION TITLE - GEOLOGICAL MAPPING
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 11.1.1

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
ALTERATION FEATURES			REGIONAL		MAY INDICATE DEEPLY BURIED STRUCTURES, L-0
COLOR, TONAL PATTERNS			LOCAL	SEASONAL	L-0, L/S
COLOR, TONAL PATTERNS			LOCAL		L/S
COLOR, TONAL PATTERNS			REGIONAL		L-0
COLOR, TONAL PATTERNS	YR		LOCAL		L-0
COLOR, TONAL PATTERNS			REGIONAL	SEASONAL	L-0
DRAINAGE PATTERNS			LOCAL	SEASONAL	
DRAINAGE PATTERNS	3-5 YR		REGIONAL	FALL-SPRING	L-0, L/S
DRAINAGE PATTERNS			LOCAL		L/S
DRAINAGE PATTERNS			REGIONAL		L-0
EROSION TYPE			LOCAL		L/S
FAULTS, FRACTURES			LOCAL	SEASONAL	L-0, L/S
FAULTS, FRACTURES	3-5 YR		REGIONAL	FALL-SPRING	L-0, L/S
FAULTS, FRACTURES			LOCAL		L/S
FAULTS, FRACTURES	YR		LOCAL		L-0
FAULTS, FRACTURES			REGIONAL	SEASONAL	L-0
LAND COVER TYPE	3-5 YR		REGIONAL	FALL-SPRING	L-0, L/S
LAND COVER TYPE			REGIONAL		SEPARATE CULTURAL FEATURES FROM GEOL
LINEAMENTS			LOCAL	SEASONAL	L-0, L/S
LINEAMENTS			LOCAL	SEASONAL	L-0, L/S
LINEAMENTS			LOCAL		L/S
LINEAMENTS	YR		REGIONAL		L-0
LINEAMENTS	3-5 YR		LOCAL		L-0
LINEAMENTS			REGIONAL	FALL, SPRING	L-0, L/S
ROCK TYPE			REGIONAL	SEASONAL	
ROCK TYPE	3-5 YR		LOCAL	SEASONAL	L-0, L/S
ROCK TYPE			REGIONAL	FALL-SPRING	L-0, L/S
ROCK TYPE	YR		REGIONAL		L-0
ROCK TYPE			LOCAL		L-0
SLOPE, RELIEF			REGIONAL	SEASONAL	L-0
SOIL TYPE	3-5 YR		LOCAL	SEASONAL	L-0, L/S
STRATA ATTITUDE			REGIONAL	FALL-SPRING	L-0, L/S
STRATA ATTITUDE			REGIONAL		L-0
STRUCTURAL FEATURES			REGIONAL	SEASONAL	L-0
STRUCTURAL FEATURES	3-5 YR		LOCAL	SEASONAL	L-0, L/S
STRUCTURAL FEATURES			REGIONAL	FALL-SPRING	L-0, L/S
STRUCTURAL FEATURES			LOCAL		L/S
STRUCTURAL FEATURES	YR		REGIONAL	ALL SEASONS	L-0
STRUCTURAL FEATURES			LOCAL		L-0
STRUCTURAL FEATURES			REGIONAL	SEASONAL	L-0
TERRAIN TYPE			LOCAL	SEASONAL	WYOMING RESOURCES STUDY
TERRAIN TYPE	3-5 YR		REGIONAL	FALL-SPRING	L-0, L/S
TERRAIN TYPE			REGIONAL	SEASONAL	L-0, L/S
TOPOGRAPHIC FEATURES			LOCAL	SEASONAL	L-0
TOPOGRAPHIC FEATURES			LOCAL	VARIES	L-0, L/S
TOPOGRAPHIC FEATURES	YR		REGIONAL		DRUMLIN FIELDS, L/S
TOPOGRAPHIC FEATURES			LOCAL		L-0
TOPOGRAPHIC FEATURES			REGIONAL	SEASONAL	L-0
VEGETATIVE COVER TYPE			REGIONAL		L-0

DISCIPLINE TITLE - GEODYNAMICS
 APPLICATION TITLE - ALTERATION FEATURE MAPPING
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 11 1.1.2
 PARAMETER

REFER.	DES ACCUR.	BASD ACCUR.	ACCUR. UNITS	LOW HORIZ RESOL	HIGH HORIZ RESOL	HORIZ RES UNITS	LOW VERT RESOL	HIGH VERT RESOL	VERT RESOL UNITS	FRESHNESS
G-16				30.0	100.0	M				MON
G-16				30.0	100.0	M				MON
G-16				30.0	100.0	M				MON

COLOR, TONAL PATTERNS
 ROCK ALTERATION
 ROCK TYPE

DISCIPLINE TITLE - GEODYNAMICS
APPLICATION TITLE - ALTERATION FEATURE MAPPING
SUBAPPLICATION TITLE - NO TITLE
TREE - 11 1 1.2

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
COLOR, TONAL PATTERNS			LOCAL		L-O, L/S
ROCK ALTERATION			LOCAL		L-O, L/S
ROCK TYPE			LOCAL		L-O, L/S

DISCIPLINE TITLE - GEODYNAMICS
 APPLICATION TITLE - FAULT, FRACTURE MAPPING
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 11 1 1.3
 PARAMETER

PARAMETER	REFER.	DES ACCUR.	BASED ACCUR.	ACCUR. UNITS	LOW HORIZ RESOL.	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL.	VERT RESOL UNITS	FRESHNESS
EROSION TYPE	G-15				10.0	100.0	M				MON
FAULTS, FRACTURES	G-15				10.0	100.0	M				MON
FOLD ELEMENTS	G-15				10.0	100.0	M				MON
LINEAMENTS	G-15				10.0	100.0	M				MON
STRUCTURAL FEATURES	G-15				10.0	100.0	M				MON

DISCIPLINE TITLE - GEODYNAMICS
 APPLICATION TITLE - FAULT, FRACTURE MAPPING
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 11.1 1 3
 PARAMETER

FREQUENCY
 OF UPDATE

DURATION

AREAL
 COVERAGE

OBSERVATION
 TIME

COMMENTS

EROSION TYPE

LOCAL

FAULTS, FRACTURES

LOCAL

FOLD ELEMENTS

LOCAL

LINEAMENTS

LOCAL

STRUCTURAL FEATURES

LOCAL

INFERS BASEMENT
 STRUCTURE, L-O, L/S
 L-O, L/S
 L-O, L/S
 L-O, L/S
 L-O, L/S

DISCIPLINE TITLE - GEODYNAMICS
 APPLICATION TITLE - LINEAMENT MAPPING
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 11 1.1.4

PARAMETER	REFER.	DES. ACCUR.	BASED ACCUR	ACCUR. UNITS	LOW HORIZ RESOL	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL.	VERT RESOL UNITS	FRESHNESS
DRAINAGE PATTERNS	G-24				100 0	100. 0	M				MON
FAULTS, FRACTURES	G-11				50. 0	100. 0	M				MON
LINEAMENTS	G-24				100. 0	100. 0	M				MON
LINEAMENTS	G-11				50 0	100 0	M				MON
STRUCTURAL FEATURES	G-24				100. 0	100. 0	M				MON
STRUCTURAL FEATURES	G-11				50 0	100 0	M				MON

DISCIPLINE TITLE - GEODYNAMICS
 APPLICATION TITLE - LINEAMENT MAPPING
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 11 1 1 4

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
DRAINAGE PATTERNS			REGIONAL		6-0, L/S
FAULTS, FRACTURES			LOCAL	MULTI-SEASONAL	STEREOSCOPIC IMAGES VERY USEFUL, L-0
LINEAMENTS			REGIONAL		L-0, L/S
LINEAMENTS			LOCAL	MULTI-SEASONAL	STEREOSCOPIC IMAGES VERY USEFUL, L-0
STRUCTURAL FEATURES			REGIONAL		L-0, L/S
STRUCTURAL FEATURES			LOCAL	MULTI-SEASONAL	STEREOSCOPIC IMAGES VERY USEFUL, L-0

DISCIPLINE TITLE - GEODYNAMICS
 APPLICATION TITLE - GEOTHERMAL MAPPING
 SUBAPPLICATION TITLE - TITLE
 TREE - 11.1.1.5

PARAMETER	REFER.	DES ACCUR.	BASD ACCUR	ACCUR. UNITS	LOW HORIZ RESOL.	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL.	VERT RESOL UNITS	FRESHNESS
ALTERATION FEATURES	L-16				50.0	100.0	M				MON
COLOR, TONAL PATTERNS	L-16				50.0	100.0	M				MON
ROCK TYPE	G-16				50.0	100.0	M				MON

DISCIPLINE TITLE - GEODYNAMICS
APPLICATION TITLE - GEOTHERMAL MAPPING
SUBAPPLICATION TITLE - TITLE
TREE - 11 1 1 5

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
ALTERATION FEATURES	YR		LOCAL REGIONAL		L-O, L/S
COLOR, TONAL PATTERNS	YR		LOCAL REGIONAL		L-O, L/S
ROCK TYPE	YR		LOCAL-REGIONAL		L-O, L/S

DISCIPLINE TITLE - GEODYNAMICS
 APPLICATION TITLE - ROCK TYPE MAPPING
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 11.1.1.6

PARAMETER	REFER.	DES. ACCUR.	BASD ACCUR.	ACCUR. UNITS	LOW HORIZ RESOL.	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL.	VERT RESOL UNITS	FRESHNESS
ALTERATION FEATURES	G-16				30.0	100.0	M				MON
COLOR, TONAL PATTERNS	G-4				30.0	100.0	M				MON
COLOR, TONAL PATTERNS	G-5				30.0	100.0	M				MON
COLOR, TONAL PATTERNS	G-16				30.0	100.0	M				MON
COLOR, TONAL PATTERNS	G-9				10.0	100.0	M				MON
ROCK TYPE	G-4				30.0	100.0	M				MON
ROCK TYPE	G-5				30.0	100.0	M				MON
ROCK TYPE	G-16				30.0	100.0	M				MON
ROCK TYPE	G-9				10.0	100.0	M				MON
SOIL TYPE	G-4				30.0	100.0	M				MON
STRATA ATTITUDE	G-4				30.0	100.0	M				MON
STRATA ATTITUDE	G-9				10.0	100.0	M				MON
STRUCTURAL FEATURES	G-5				30.0	100.0	M				MON
STRUCTURAL FEATURES	G-9				10.0	100.0	M				MON
TERRAIN TYPE	G-4				30.0	100.0	M				MON
TOPOGRAPHIC FEATURES	G-9				10.0	100.0	M				MON
VEGETATIVE COVER TYPE	G-4				30.0	100.0	M				MON

DISCIPLINE TITLE - GEODYNAMICS
 APPLICATION TITLE - ROCK TYPE MAPPING
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 11 1.1 6

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
ALTERATION FEATURES	YR		LOCAL REGIONAL		L-O, L/S
COLOR, TONAL PATTERNS			REGIONAL	SUMMER AND WINTER	
COLOR, TONAL PATTERNS			REGIONAL	SUMMER AND WINTER	
COLOR, TONAL PATTERNS	YR		LOCAL-REGIONAL		L-O, L/S
COLOR, TONAL PATTERNS			REGIONAL		L-O
ROCK TYPE			REGIONAL	SUMMER AND WINTER	
ROCK TYPE			REGIONAL	SUMMER AND WINTER	
ROCK TYPE	YR		LOCAL REGIONAL		L-O, L/S
ROCK TYPE			REGIONAL		L-O
SOIL TYPE			REGIONAL	SUMMER AND WINTER	
STRATA ATTITUDE			REGIONAL	SUMMER AND WINTER	
STRATA ATTITUDE			REGIONAL		L-O
STRUCTURAL FEATURES			REGIONAL	SUMMER AND WINTER	
STRUCTURAL FEATURES			REGIONAL		L-O
TERRAIN TYPE			REGIONAL	SUMMER AND WINTER	
TOPOGRAPHIC FEATURES			REGIONAL		L-O
VEGETATIVE COVER TYPE			REGIONAL	SUMMER AND WINTER	

DISCIPLINE TITLE - GEODYNAMICS
 APPLICATION TITLE - EARTHQUAKE RISK ASSESSMENT
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 11.1.2.1

PARAMETER	REFER.	DES. ACCUR.	BASD ACCUR	ACCUR. UNITS	LOW HORIZ RESOL.	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL.	VERT RESOL UNITS	FRESHNESS
DRAINAGE PATTERNS	G-10				30.0	100.0	M				MON
FAULTS, FRACTURES	G-10				30.0	100.0	M				DA-MON
FAULTS, FRACTURES	G-200										
GRAVITY FIELD STRENGTH	G-203	2.0		MGAL							
LINEAMENTS	G-10				30.0	100.0	M				MON
PLATE MOTION	G-203							1.0	1.0	CM	
PLATE MOTION	G-200				1.0	5.0	CM	1.0	5.0	MIN	
SEISMICITY	G-10										
STRAIN RATES	G-200	3E-8		1/YR							
STRESS, STRAIN	G-10										HR-DA
STRUCTURAL FEATURES	G-10				30.0	100.0	M				MON
TOPOGRAPHIC FEATURES	G-10				30.0	100.0	M				MON

DISCIPLINE TITLE - GEODYNAMICS
 APPLICATION TITLE - EARTHQUAKE RISK ASSESSMENT
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 11 1 2 1

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
DRAINAGE PATTERNS			REGIONAL	ALL SEASONS	L-0, L/S
FAULTS, FRACTURES			REGIONAL	ALL SEASONS	L-0, L/S
FAULTS, FRACTURES					
GRAVITY FIELD STRENGTH					
LINEAMENTS			REGIONAL	ALL SEASONS	L-0, L/S
PLATE MOTION					
PLATE MOTION	WK-MON	10 YR			
SEISMICITY				ALL SEASONS	GROUND BASED SEISMOGRAPHS, L-0
STRAIN RATES	WK	10 YR			
STRESS, STRAIN			LOCAL	ALL SEASONS	INFRARED VIA STRESS TRAJECTORIES, L-0
STRUCTURAL FEATURES			REGIONAL	ALL SEASONS	L-0, L/S
TOPOGRAPHIC FEATURES			REGIONAL	ALL SEASONS	L-0 L/S

DISCIPLINE TITLE - GEODYNAMICS
 APPLICATION TITLE - VOLCANIC ERUPTION RISK ASSESSMENT
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 11 1 2 2

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
GROUND TILT	6-10/DA		GLOBAL		GROUND BASED INSTRUMENTS. S/C RELAYED DATA
SEISMICITY	6-10/DA		GLOBAL		GROUND BASED INSTRUMENTS. S/C RELAYED DATA

DISCIPLINE TITLE - GEODYNAMICS
 APPLICATION TITLE - GEODETIC MEASUREMENT OF PLATE MOVEMENT
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 11 1 2 3

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
BASLINE MEASUREMENT					
BASLINE MEASUREMENT					
PLATE MOTION					
POLAR POSITION					
UNIVERSAL TIME					

DISCIPLINE TITLE - GEODYNAMICS
 APPLICATION TITLE - REGIONAL STUDIES
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 11.1.3

PARAMETER	REFER.	DES. ACCUR.	BASD ACCUR.	ACCUR UNITS	LOW HORIZ RESOL.	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL.	VERT RESOL UNITS	FRESHNESS
COLOR, TONAL PATTERNS	G-9				10.0	100.0	M				MON
DRAINAGE PATTERNS	G-9				10.0	100.0	M				MON
FAULTS, FRACTURES	G-9				10.0	100.0	M				MON
LINEAMENTS	G-9				10.0	100.0	M				MON
ROCK TYPE	G-9				10.0	100.0	M				MON
STRUCTURAL FEATURES	G-9				10.0	100.0	M				MON
TERRAIN TYPE	G-9				10.0	100.0	M				MON
TOPOGRAPHIC FEATURES	G-9				10.0	100.0	M				MON

DISCIPLINE TITLE - GEODYNAMICS
APPLICATION TITLE - REGIONAL STUDIES
SUBAPPLICATION TITLE - NO TITLE
TREE - 11 1 3

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
COLOR, TONAL PATTERNS			REGIONAL	SEASONAL	L-0
DRAINAGE PATTERNS			REGIONAL	SEASONAL	L-0
FAULTS, FRACTURES			REGIONAL	SEASONAL	L-0
LINEAMENTS			REGIONAL	SEASONAL	L-0
ROCK TYPE			REGIONAL	SEASONAL	L-0
STRUCTURAL FEATURES			REGIONAL	SEASONAL	L-0
TERRAIN TYPE			REGIONAL	SEASONAL	L-0
TOPOGRAPHIC FEATURES			REGIONAL	SEASONAL	L-0

DISCIPLINE TITLE - GEODYNAMICS
 APPLICATION TITLE - ARCTIC AREA STUDIES
 SUBAPPLICATION TITLE - ENVIRONMENTAL IMPACT ON ARCTIC TUNDRA
 TREE - 11.1.3.1 1

PARAMETER	REFER.	DES ACCUR.	BASED ACCUR	ACCUR. UNITS	LOW HORIZ RESOL.	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL.	VERT RESOL UNITS	FRESHNESS
LAND COVER TYPE	G-3				10 0	50 0	M				MON
TERRAIN TYPE	G-3				30 0	100.0	M				MON
VEGETATIVE COVER TYPE	G-3				20.0	80.0	M				MON

DISCIPLINE TITLE - GEODYNAMICS
 APPLICATION TITLE - ARCTIC AREA STUDIES
 SUBAPPLICATION TITLE - ENVIRONMENTAL IMPACT ON ARCTIC TUNDRA
 TREE - 11 1 3 1 1

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
LAND COVER TYPE	2-4 YR		LOCAL	SUMMER	L-0
TERRAIN TYPE	2-4 YR		LOCAL	SUMMER	L-0
VEGETATIVE COVER TYPE	2-4 YR		LOCAL	SUMMER	L-0

DISCIPLINE TITLE - GEODYNAMICS
 APPLICATION TITLE - DESERT AREA STUDIES
 SUBAPPLICATION TITLE - SAND SEAS-DESERT DYNAMICS
 TREE - 11.1.3.2.1

PARAMETER	REFER.	DES ACCUR.	BASD ACCUR	ACCUR. UNITS	LOW HORIZ RESOL	HIGH HORIZ RESOL	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL.	VERT RESOL UNITS	FRESHNESS
COLOR, TONAL PATTERNS	G-100				10.0	100.0	M				
LINEAMENTS	G-6				30.0	100.0	M				
SLOPE, RELIEF	G-100				10.0	100.0	M				MON
STRUCTURAL FEATURES	G-6				10.0	100.0	M				
TOPOGRAPHIC FEATURES	G-6				30.0	100.0	M				MON
TOPOGRAPHIC FEATURES	G-100				10.0	100.0	M				MON
VEGETATIVE COVER TYPE	G-6				10.0	100.0	M				MON
WIND SPEED	G-6										MON
WIND STRESS	G-6				100.0	1000.0	M				MON

DISCIPLINE TITLE - GEODYNAMICS
 APPLICATION TITLE - DESERT AREA STUDIES
 SUBAPPLICATION TITLE - SAND SEAS-DESERT DYNAMICS
 TREE - 11.1 3.2 1

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
COLOR, TONAL PATTERNS			REGIONAL	LOW SOLAR ANGLE	GROUND BASED WIND DATA SUPPLIMENT ANALYSIS, L-0
LINEAMENTS			REGIONAL		L-0
SLOPE, RELIEF			REGIONAL	LOW SOLAR ANGLE	SIZE&SHAPE, L-0
STRUCTURAL FEATURES			REGIONAL		L-0
TOPOGRAPHIC FEATURES			REGIONAL		DUNE MORPHOLOGY, L-0
TOPOGRAPHIC FEATURES			REGIONAL	LOW SOLAR ANGLE	L-0
VEGETATIVE COVER TYPE			REGIONAL		L-0
WIND SPEED			REGIONAL		L-0
WIND STRESS			REGIONAL		L-0

DISCIPLINE TITLE - GEODYNAMICS
 APPLICATION TITLE - GRAVITY FIELD MODELING
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 11. 2. 1. 1

PARAMETER	REFER.	DES ACCUR.	BASD ACCUR.	ACCUR. UNITS	LOW HORIZ RESOL.	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL.	VERT RESOL UNITS	FRESHNESS
ANOMALY LOCATION	G-202		5. 0	MGAL	400. 0	3000. 0	KM				
BASELINE LENGTH	G-100			CM							
GEOID LOCATION	G-201		10. 0	CM	100. 0	3000. 0	KM				
GRAVITY FIELD STRENGTH	G-201	4. 0	10. 0	MGAL	100. 0	100. 0	KM				
GRAVITY FIELD STRENGTH	G-202	4. 0	13. 0	MGAL	100. 0	100. 0	KM				
TOPOGRAPHIC FEATURES	G-202										
UNDULATION SIZE	G-202		20. 0	CM							

DISCIPLINE TITLE - GEODYNAMICS
APPLICATION TITLE - GRAVITY FIELD MODELING
SUBAPPLICATION TITLE - NO TITLE
TREE - 11 2.1 1

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
ANOMALY LOCATION			1 DEG SQ		
BASELINE LENGTH			1 DEG SQ		
GEDID LOCATION			1 DEG SQ		
GRAVITY FIELD STRENGTH			1 DEG SQ		
GRAVITY FIELD STRENGTH					
GRAVITY FIELD STRENGTH					
TOPOGRAPHIC FEATURES			10-30 KM		
UNDULATION SIZE					

DISCIPLINE TITLE - GEODYNAMICS
 APPLICATION TITLE - MAGNETIC FIELD MODELING
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 11 2 1.2
 PARAMETER

FREQUENCY
 OF UPDATE

DURATION

AREAL
 COVERAGE

OBSERVATION
 TIME

COMMENTS

MAGNETIC FIELD STRENGTH
 MAGNETIC PERTURBATIONS

MAGNETIC PERTURBATIONS
 MAIN MAGNETIC FIELD
 MAIN MAGNETIC FIELD

1-3 DEG

DAYTIME (9A-3P) LOCAL
 TIME

SEPARATED CORE, CRUST,
 IONOSPHERE, MAGNETOSPHERE

DISCIPLINE TITLE - GEODYNAMICS
 APPLICATION TITLE - TECTONIC STUDIES
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 11.2.2

PARAMETER	REFER.	DES. ACCUR.	BASED ACCUR	ACCUR. UNITS	LOW HORIZ RESOL.	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL.	VERT RESOL UNITS	FRESHNESS
BASELINE LENGTH	G-201	4.		CM							
CREEP RATE	G-201										
CRUSTAL UPLIFT, SUBSIDENCE	G-201	4.		CM							
DRAINAGE PATTERNS	G-10				30.0	100.0	M				MON
DRAINAGE PATTERNS	G-12	95.	95.	%	30.0	100.0	M				MON
FAULTS, FRACTURES	G-10				30.0	100.0	M				MON
FAULTS, FRACTURES	G-12				30.0	100.0	M				MON
LINEAMENTS	G-10				30.0	100.0	M				MON
LINEAMENTS	G-12				30.0	100.0	M				MON
STRAIN RATES	G-201										
STRUCTURAL FEATURES	G-10				30.0	100.0	M				MON
STRUCTURAL FEATURES	G-12				30.0	100.0	M				MON
TOPOGRAPHIC FEATURES	G-10				30.0	100.0	M				MON
TOPOGRAPHIC FEATURES	G-12				30.0	100.0	M				MON

DISCIPLINE TITLE - GEODYNAMICS
 APPLICATION TITLE - TECTONIC STUDIES
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 11 2.2

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
BASLINE LENGTH					
CREEP RATE					
CRUSTAL UPLIFT, SUBSIDENCE					
DRAINAGE PATTERNS			REGIONAL		
DRAINAGE PATTERNS			LOCAL	MULTI-SEASONAL	L-0 L/S INFERS STRIKE AND DIP OF RIFT FAULTS, L-0, L/S
FAULTS, FRACTURES			REGIONAL		
FAULTS, FRACTURES			LOCAL	MULTI-SEASONAL	L-0, L/S L-0, L/S
LINEAMENTS			REGIONAL		
LINEAMENTS			LOCAL	MULTI-SEASONAL	L-0, L/S L-0, L/S
STRAIN RATES					
STRUCTURAL FEATURES			REGIONAL		
STRUCTURAL FEATURES			LOCAL	MULTI-SEASONAL	L-0, L/S INCLUDES RING INTRUSIONS, L-0, L/S
TOPOGRAPHIC FEATURES			REGIONAL	* -	
TOPOGRAPHIC FEATURES			LOCAL	MULTI-SEASONAL	L-0, L/S INCLUDES VOLCANIC FEATURES, L-0, L/S

DISCIPLINE TITLE - GEODYNAMICS
 APPLICATION TITLE - REGIONAL CRUSTAL DEFORMATION MODELING
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 11.2 3

PARAMETER	REFER.	DES. ACCUR.	BASED ACCUR.	ACCUR. UNITS	LOW HORIZ RESOL.	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL.	VERT RESOL UNITS	FRESHNESS
BASELINE LENGTH	G-201	2.	11.	CM	2.0	16.0	CM				2 WK
GRAVITY FIELD STRENGTH	G-203	2.		MGAL							
PLATE MOTION	G-201	2.	3.	CM	2.0	4.0	CM	.1	2.	CM	2 WK
PLATE MOTION	G-203							1.	1.	CM	
PLATE MOTION	G-200	3.	93	CM	1.0	5.0	CM	1.	5.	MM	
POLAR MOTION	G-201	10.		CM							
ROTATIONAL PERIOD	G-201	100.0		USEC							
SOLID EARTH TIDAL DISPL	G-201										
UNIVERSAL TIME	G-201	10.	100.	NSEC							

DISCIPLINE TITLE - GEODYNAMICS
 APPLICATION TITLE - REGIONAL CRUSTAL DEFORMATION MODELING
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 11 2 3

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
BASLINE LENGTH	5 DA			.	REQUIREMENTS BASED ON 100 KM DISTANCES
GRAVITY FIELD STRENGTH					
PLATE MOTION	5 DA				
PLATE MOTION					
PLATE MOTION					
POLAR MOTION	12 HR				
ROTATIONAL PERIOD					
SOLID EARTH TIDAL DISPL					
UNIVERSAL TIME					

DISCIPLINE TITLE - GEODYNAMICS
 APPLICATION TITLE - STRESS/STRAIN MODELING
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 11.2.3.1

PARAMETER	REFER.	DES ACCUR.	BASED ACCUR.	ACCUR UNITS	LOW HORIZ RESOL.	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL.	VERT RESOL UNITS	FRESHNESS
DEFORMATION RATE	G-203										
PLATE MOTION	G-203										
PLATE MOTION	G-200				1 0	5.0	CM	1	1.	MM	
STRAIN RATES	G-200	3E-B		1/YR				1.	5.	MM	

DISCIPLINE TITLE - GEODYNAMICS
APPLICATION TITLE - STRESS/STRAIN MODELING
SUBAPPLICATION TITLE - NO TITLE
TREE - 11 2 3 1

PARAMETER

FREQUENCY
OF UPDATE

DURATION

AREAL
COVERAGE

OBSERVATION
TIME

COMMENTS

DEFORMATION RATE
PLATE MOTION
PLATE MOTION
STRAIN RATES

1-3 YR
WK-MON

DISCIPLINE TITLE - GEODYNAMICS
 APPLICATION TITLE - SOLID EARTH TIDAL STUDIES
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 11.2.3.2

PARAMETER	REFER.	DES. ACCUR.	BASED ACCUR.	ACCUR UNITS	LOW HORIZ RESOL.	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL.	VERT RESOL UNITS	FRESHNESS
CRUSTAL UPLIFT, SUBSIDENCE	Q-203							.5	.5	MM/YR	
SOLID EARTH TIDAL ACCEL	Q-203				.0015	.0015	MM/S2				
SOLID EARTH TIDAL DISPL	Q-203				50.0	50.0	CM				

DISCIPLINE TITLE - GEODYNAMICS
APPLICATION TITLE - SOLID EARTH TIDAL STUDIES
SUBAPPLICATION TITLE - NO TITLE
TREE - 11 2 3 2

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
CRUSTAL UPLIFT, SUBSIDENCE					
SOLID EARTH TIDAL ACCEL					
SOLID EARTH TIDAL DISPL					

DISCIPLINE TITLE - GEODYNAMICS
 APPLICATION TITLE - EARTH ROTATION/POLAR MOTION STUDIES
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 11.2.3.3

PARAMETER	REFER.	DES ACCUR.	BASD ACCUR.	ACCUR UNITS	LOW HORIZ RESOL.	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL.	VERT RESOL UNITS	FRESHNESS
POLAR POSITION	G-203		3.	CM							24 HR
POLAR POSITION	G-200	1.	5.	CM							12 HR
SOLID EARTH TIDAL DISPL	G-203		90.	CM							24 HR
SOLID EARTH TIDAL DISPL	G-200	5.	50.	CM							12-24 HR
UNIVERSAL TIME	G-203		2.	MSEC	2.0	2.0	MSEC				
UNIVERSAL TIME	G-200	.1		MSEC							12 HR

DISCIPLINE TITLE - GEODYNAMICS
APPLICATION TITLE - EARTH ROTATION/POLAR MOTION STUDIES
SUBAPPLICATION TITLE - NO TITLE
TREE - 11.2.3.3

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
POLAR POSITION	DA				
POLAR POSITION	12 HR				
SOLID EARTH TIDAL DISPL	DA				
SOLID EARTH TIDAL DISPL	12-24 HR				
UNIVERSAL TIME					
UNIVERSAL TIME	12 HR				

-

Non-Renewable Applications
Data Sheets

DISCIPLINE TITLE - NON-RENEWABLE RESOURCES
 APPLICATION TITLE - MINERAL & ENERGY RESOURCES SURVEYS
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 12.1.1

PARAMETER	REFER.	DES ACCUR	BASED ACCUR	ACCUR. UNITS	LOW HORIZ RESOL.	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL.	VERT RESOL UNITS	FRESHNESS
COLOR, TONAL PATTERNS	G-3				100 0	100.0	M				MON
COLOR, TONAL PATTERNS	G-5				100 0	100.0	M				MON
DRAINAGE PATTERNS	G-3				100 0	100.0	M				MON
LINEAMENTS	G-3				100 0	100.0	M				MON
LINEAMENTS	G-5				100 0	100.0	M				MON
MAGNETIC FIELD STRENGTH	G-3										MON
ROCK TYPE	G-3				100 0	100.0	M				MON
ROCK TYPE	G-5				100.0	100.0	M				MON
STRUCTURAL FEATURES	G-3				100 0	100.0	M				MON
STRUCTURAL FEATURES	G-5				100.0	100.0	M				MON
TERRAIN TYPE	G-3				100.0	100.0	M				MON

DISCIPLINE TITLE - NON-RENEWABLE RESOURCES
 APPLICATION TITLE - METAL AND ORE EXPLORATION
 SUBAPPLICATION TITLE - VOLCANOGENIC COPPER, LEAD, ZINC, AND SILVER EXPLORATION
 TREE - 12.1.1.1.1

PARAMETER	REFER.	DES ACCUR	BASD ACCUR	ACCUR. UNITS	LOW HORIZ RESOL	HIGH HORIZ RESOL	HORIZ RES UNITS	LOW VERT RESOL	HIGH VERT RESOL	VERT RESOL UNITS	FRESHNESS
COLOR, TONAL PATTERNS	L-10				15 0	300. 0	M				
CRUSTAL UPLIFT, SUBSIDENCE	L-10	5.		CM							
DRAINAGE PATTERNS	L-10				15. 0	300 0	M				2 MON
FAULTS, FRACTURES	L-10				10 0	20 0	M				
FOLD ELEMENTS	L-10				30 0	300 0	M				
GRAVITY FIELD STRENGTH	L-10				100 0	100 0	KM				
LINEAMENTS	L-10				15 0	300. 0	M				2 MON
MAGNETIC FIELD STRENGTH	L-10	001		EMU/CC	100 0	100 0	KM				1 YR
ROCK ALTERATION	L-10				30 0	300. 0	M				2 MON
ROCK FORMATION	L-10				30. 0	300. 0	M				
ROCK TYPE	L-10				30 0	300. 0	M				
STRATA ATTITUDE	L-10				10 0	30 0	M				
STRUCTURAL ANOMALIES	L-10				10 0	300 0	M				
TERRAIN TYPE	L-10				30 0	300 0	M				2 MON
THERMAL ANOMALIES	L-10				10. 0	30 0	M				
VEGETATIVE PATTERNS	L-10	95.		%	15. 0	300 0	M				MON

DISCIPLINE TITLE - NON-RENEWABLE RESOURCES
 APPLICATION TITLE - METAL AND ORE EXPLORATION
 SUBAPPLICATION TITLE - VOLCANOGENIC COPPER, LEAD, ZINC, AND SILVER EXPLORATION
 TREE - 12 1 1 1.1

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
COLOR, TONAL PATTERNS					
CRUSTAL UPLIFT, SUBSIDENCE					
DRAINAGE PATTERNS					
FAULTS, FRACTURES					
FOLD ELEMENTS					
GRAVITY FIELD STRENGTH					
LINEAMENTS					
MAGNETIC FIELD STRENGTH					
ROCK ALTERATION					
ROCK FORMATION					
ROCK TYPE					
STRATA ATTITUDE					
STRUCTURAL ANOMALIES					
TERRAIN TYPE					
THERMAL ANOMALIES					
VEGETATIVE PATTERNS					

DISCIPLINE TITLE - NON-RENEWABLE RESOURCES
 APPLICATION TITLE - METAL AND ORE EXPLORATION
 SUBAPPLICATION TITLE - VOLCANOGENIC COPPER, LEAD, ZINC, AND SILVER EXPLORATION
 TREE - 12 1 1.1 1

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
COLOR, TONAL PATTERNS	1-3 YR				
CRUSTAL UPLIFT, SUBSIDENCE	3 YR				
DRAINAGE PATTERNS					
FAULTS, FRACTURES	1-3 YR				
FOLD ELEMENTS	1 YR				
GRAVITY FIELD STRENGTH	3-5 YR				
LINEAMENTS					
MAGNETIC FIELD STRENGTH	2-3 YR				
ROCK ALTERATION	3 YR				
ROCK FORMATION					
ROCK TYPE	1-3 YR				
STRATA ATTITUDE					
STRUCTURAL ANOMALIES					
TERRAIN TYPE					
THERMAL ANOMALIES					
VEGETATIVE PATTERNS	4 MON				

DISCIPLINE TITLE - NON-RENEWABLE RESOURCES
 APPLICATION TITLE - METAL AND ORE EXPLORATION
 SUBAPPLICATION TITLE - SHALE DEPOSITS FOR METALS CONTENT EXPLORATION
 TREE - 12.1 1.1.2

PARAMETER	REFER	DES ACCUR.	BASD ACCUR	ACCUR. UNITS	LOW HORIZ RESOL.	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL.	VERT RESOL UNITS	FRESHNESS
COLOR, TONAL PATTERNS	L-10				15.0	300.0	M				
CRUSTAL UPLIFT, SUBSIDENCE	L-10	5.		CM							
DRAINAGE PATTERNS	L-10				15.0	300.0	M				2 MON
FAULTS, FRACTURES	L-10				10.0	20.0	M				
FOLD ELEMENTS	L-10				30.0	300.0	M				
GRAVITY FIELD STRENGTH	L-10				100.0	100.0	KM				
LINEAMENTS	L-10				15.0	300.0	M				2 MON
MAGNETIC FIELD STRENGTH	L-10	.001		EMU/CC	100.0	100.0	KM				1 YR
ROCK ALTERATION	L-10				30.0	300.0	M				2 MON
ROCK FORMATION	L-10				30.0	300.0	M				
ROCK TYPE	L-10				30.0	300.0	M				
STRATA ATTITUDE	L-10				10.0	30.0	M				
STRUCTURAL ANOMALIES	L-10				10.0	300.0	M				
TERRAIN TYPE	L-10				30.0	300.0	M				2 MON
THERMAL ANOMALIES	L-10				10.0	10.0	M				
VEGETATIVE PATTERNS	L-10	95.		%	15.0	300.0	M				MON

DISCIPLINE TITLE - NON-RENEWABLE RESOURCES
 APPLICATION TITLE - METAL AND ORE EXPLORATION
 SUBAPPLICATION TITLE - SHALE DEPOSITS FOR METALS CONTENT EXPLORATION
 TREE - 12 1.1.1.2

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
COLOR, TONAL PATTERNS					
CRUSTAL UPLIFT, SUBSIDENCE	1-3 YR				
DRAINAGE PATTERNS	3 YR				
FAULTS, FRACTURES					
FOLD ELEMENTS	1-3 YR				
GRAVITY FIELD STRENGTH	1 YR				
LINEAMENTS	3-5 YR				
MAGNETIC FIELD STRENGTH					
ROCK ALTERATION	2-3 YR				
ROCK FORMATION	3 YR				
ROCK TYPE					
STRATA ATTITUDE	1-3 YR				
STRUCTURAL ANOMALIES					
TERRAIN TYPE					
THERMAL ANOMALIES					
VEGETATIVE PATTERNS	4 MON				

DISCIPLINE TITLE - NON-RENEWABLE RESOURCES
 APPLICATION TITLE - METAL AND ORE EXPLORATION
 SUBAPPLICATION TITLE - PORPHYRY COPPER DEPOSITS EXPLORATION
 TREE - 12 1. 1. 1. 3

PARAMETER	REFER.	DES. ACCUR	BASD ACCUR.	ACCUR. UNITS	LOW HORIZ RESOL	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL	HIGH VERT RESOL.	VERT RESOL UNITS	FRESHNESS
COLOR, TONAL PATTERNS	L-10				15 0	300 0	M				
CRUSTAL UPLIFT, SUBSIDENCE	L-10	5.		CM							
DRAINAGE PATTERNS	L-10				15.0	300.0	M				2 MON
FAULTS, FRACTURES	L-10				10.0	20.0	M				
FOLD ELEMENTS	L-10				30 0	300 0	M				
GRAVITY FIELD STRENGTH	L-10				100.0	100 0	KM				
LINEAMENTS	L-10				15.0	300.0	M				2 MON
MAGNETIC FIELD STRENGTH	L-10	.001		EMU/CC	100 0	100.0	KM				1 YR
ROCK ALTERATION	L-10				30.0	300 0	M				2 MON
ROCK FORMATION	L-10				30 0	300 0	M				
ROCK TYPE	L-10				30 0	300.0	M				
STRATA ATTITUDE	L-10				10.0	30.0	M				
STRUCTURAL ANOMALIES	L-10				10.0	300.0	M				
TERRAIN TYPE	L-10				30 0	300.0	M				2 MON
THERMAL ANOMALIES	L-10				10 0	30 0	M				
VEGETATIVE PATTERNS	L-10	95.		%	15.0	300.0	M				MON

DISCIPLINE TITLE - NON-RENEWABLE RESOURCES
 APPLICATION TITLE - METAL AND ORE EXPLORATION
 SUBAPPLICATION TITLE - PORPHYRY COPPER DEPOSITS EXPLORATION
 TREE - 12.1 1.1.3

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
COLOR, TONAL PATTERNS					
CRUSTAL UPLIFT, SUBSIDENCE	1-3 YR				
DRAINAGE PATTERNS	3 YR				
FAULTS, FRACTURES					
FOLD ELEMENTS	1-3 YR				
GRAVITY FIELD STRENGTH	1 YR				
LINEAMENTS	3-5 YR				
MAGNETIC FIELD STRENGTH					
ROCK ALTERATION	2-3 YR				
ROCK FORMATION	3 YR				
ROCK TYPE					
STRATA ATTITUDE	1-3 YR				
STRUCTURAL ANOMALIES					
TERRAIN TYPE					
THERMAL ANOMALIES					
VEGETATIVE PATTERNS	4 MON				

DISCIPLINE TITLE - NON-RENEWABLE RESOURCES
 APPLICATION TITLE - METAL AND ORE EXPLORATION
 SUBAPPLICATION TITLE - MISSISSIPPI VALLEY TYPE LEAD&ZINC EXPLORATION
 TREE - 12.1.1.1.4

PARAMETER	REFER	DES ACCUR.	BASD ACCUR	ACCUR. UNITS	LOW HORIZ RESOL	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL	VERT RESOL UNITS	FRESHNESS
COLOR, TONAL PATTERNS	L-10				15 0	300. 0	M				
CRUSTAL UPLIFT, SUBSIDENCE	L-10	5.		CM							
DRAINAGE PATTERNS	L-10				15. 0	300. 0	M				2 MON
FAULTS, FRACTURES	L-10				10	20	M				
FOLD ELEMENTS	L-10				30 0	300. 0	M				
GRAVITY FIELD STRENGTH	L-10				100. 0	100. 0	KM				
LINEAMENTS	L-10				15. 0	300 0	M				2 MON
MAGNETIC FIELD STRENGTH	L-10	. 001		EMU/CC	100. 0	100. 0	KM				1 YR
ROCK ALTERATION	L-10				30. 0	300 0	M				2 MON
ROCK FORMATION	L-10				30 0	300. 0	M				
ROCK TYPE	L-10				30. 0	300 0	M				
STRATA ATTITUDE	L-10				10 0	30 0	M				
STRUCTURAL ANOMALIES	L-10				10. 0	300 0	M				
TERRAIN TYPE	L-10				30. 0	300. 0	M				1 MON
THERMAL ANOMALIES	L-10				10 0	30. 0	M				
VEGETATIVE PATTERNS	L-10	95.		%	15 0	300 0	M				MON

DISCIPLINE TITLE - NON-RENEWABLE RESOURCES
 APPLICATION TITLE - METAL AND ORE EXPLORATION
 SUBAPPLICATION TITLE - MISSISSIPPI VALLEY TYPE LEAD&ZINC EXPLORATION
 TREE - 12 1 1 1 4

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
COLOR, TONAL PATTERNS					
CRUSTAL UPLIFT, SUBSIDENCE	1-3 YR				
DRAINAGE PATTERNS	3 YR				
FAULTS, FRACTURES					
FOLD ELEMENTS	1-3 YR				
GRAVITY FIELD STRENGTH	1 YR				
LINEAMENTS	3-5 YR				
MAGNETIC FIELD STRENGTH					
ROCK ALTERATION	2-3 YR				
ROCK FORMATION	3 YR				
ROCK TYPE					
STRATA ATTITUDE	1-3 YR				
STRUCTURAL ANOMALIES					
TERRAIN TYPE					
THERMAL ANOMALIES					
VEGETATIVE PATTERNS	4 MON				

DISCIPLINE TITLE - NON-RENEWABLE RESOURCES
 APPLICATION TITLE - METAL AND ORE EXPLORATION
 SUBAPPLICATION TITLE - DISSEMINATED GOLD&SILVER EXPLORATION
 TREE - 12.1.1.1.5

PARAMETER	REFER.	DES ACCUR.	BASD ACCUR.	ACCUR UNITS	LOW HORIZ RESOL.	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL.	VERT RESOL UNITS	FRESHNESS
COLOR, TONAL PATTERNS	L-10				15.0	300.0	M				
CRUSTAL UPLIFT, SUBSIDENCE	L-10	5.		CM							
DRAINAGE PATTERNS	L-10				15.0	300.0	M				2 MON
FAULTS, FRACTURES	L-10				10.0	20.0	M				
FOLD ELEMENTS	L-10				30.0	300.0	M				
GRAVITY FIELD STRENGTH	L-10				100.0	100.0	KM				
LINEAMENTS	L-10				15.0	300.0	M				2 MON
MAGNETIC FIELD STRENGTH	L-10	.001		EMU/CC	100.0	100.0	KM				1 YR
ROCK ALTERATION	L-10				30.0	300.0	M				2 MON
ROCK FORMATION	L-10				30.0	300.0	M				
ROCK TYPE	L-10				30.0	300.0	M				
STRATA ATTITUDE	L-10				10.0	30.0	M				
STRUCTURAL ANOMALIES	L-10				10.0	300.0	M				
TERRAIN TYPE	L-10				30.0	300.0	M				2 MON
THERMAL ANOMALIES	L-10				10.0	30.0	M				
VEGETATIVE PATTERNS	L-10	95.		%	15.0	300.0	M				MON

DISCIPLINE TITLE - NON-RENEWABLE RESOURCES
 APPLICATION TITLE - METAL AND ORE EXPLORATION
 SUBAPPLICATION TITLE - DISSEMINATED GOLD&SILVER EXPLORATION
 TREE - 12.1.1.1.5

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
COLOR, TONAL PATTERNS					
CRUSTAL UPLIFT, SUBSIDENCE	1-3 YR				
DRAINAGE PATTERNS	3 YR				
FAULTS, FRACTURES					
FOLD ELEMENTS	1-3 YR				
GRAVITY FIELD STRENGTH	1 YR				
LINEAMENTS	3-5 YR				
MAGNETIC FIELD STRENGTH					
ROCK ALTERATION	2-3 YR				
ROCK FORMATION	3 YR				
ROCK TYPE					
STRATA ATTITUDE	1-3 YR				
STRUCTURAL ANOMALIES					
TERRAIN TYPE					
THERMAL ANOMALIES					
VEGETATIVE PATTERNS	4 MON				

DISCIPLINE TITLE - NON-RENEWABLE RESOURCES
APPLICATION TITLE - METAL AND ORE EXPLORATION
SUBAPPLICATION TITLE - NICKEL LATERIATE EXPLORATION
TREE - 12. 1. 1. 1. 7

[illegible]

DISCIPLINE TITLE - NON-RENEWABLE RESOURCES
 APPLICATION TITLE - METAL AND ORE EXPLORATION
 SUBAPPLICATION TITLE - NICKEL LATERIATE EXPLORATION
 TREE - 12 1.1.1.7

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
COLOR, TONAL PATTERNS					
CRUSTAL UPLIFT, SUBSIDENCE	1-3 YR				
DRAINAGE PATTERNS	3 YR				
FAULTS, FRACTURES					
FOLD ELEMENTS	1-3 YR				
GRAVITY FIELD STRENGTH	1 YR				
LINEAMENTS	3-5 YR				
MAGNETIC FIELD STRENGTH					
ROCK ALTERATION	2-3 YR				
ROCK FORMATION	3 YR				
ROCK TYPE					
STRATA ATTITUDE	1-3 YR				
STRUCTURAL ANOMALIES					
TERRAIN TYPE					
THERMAL ANOMALIES					
VEGETATIVE PATTERNS	4 MON				

DISCIPLINE TITLE - NON-RENEWABLE RESOURCES
 APPLICATION TITLE - METAL AND ORE EXPLORATION
 SUBAPPLICATION TITLE - ARCHEAN NICKEL&COPPER EXPLORATION
 TREE - 12.1 1.1.8

PARAMETER	REFER.	DES ACCUR.	BASED ACCUR	ACCUR. UNITS	LOW HORIZ RESOL	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL.	VERT RESOL UNITS	FRESHNESS
COLOR, TONAL PATTERNS	L-10				15.0	300.0	M				
CRUSTAL UPLIFT, SUBSIDENCE	L-10	5		CM							
DRAINAGE PATTERNS	L-10				15.0	300.0	M				2 MON
FAULTS, FRACTURES	L-10				10.0	20.0	M				
FOLD ELEMENTS	L-10				30.0	300.0	M				
GRAVITY FIELD STRENGTH	L-10				100.0	100.0	KM				
LINEAMENTS	L-10				15.0	300.0	M				2 MON
MAGNETIC FIELD STRENGTH	L-10	.001		EMU/CC	100.0	100.0	KM				1 YR
ROCK ALTERATION	L-10				30.0	300.0	M				2 MON
ROCK FORMATION	L-10				30.0	300.0	M				
ROCK TYPE	L-10				30.0	300.0	M				
STRATA ATTITUDE	L-10				10.0	30.0	M				
STRUCTURAL ANOMALIES	L-10				10.0	300.0	M				
TERRAIN TYPE	L-10				30.0	300.0	M				2 MON
THERMAL ANOMALIES	L-10				10.0	30.0	M				
VEGETATIVE PATTERNS	L-10	95.		%	15	300.	M				MON

DISCIPLINE TITLE - NON-RENEWABLE RESOURCES
 APPLICATION TITLE - METAL AND ORE EXPLORATION
 SUBAPPLICATION TITLE - ARCHEAN NICKEL&COPPER EXPLORATION
 TREE - 12 1.1.1 8

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
COLOR, TONAL PATTERNS					
CRUSTAL UPLIFT, SUBSIDENCE	1-3 YR				
DRAINAGE PATTERNS	3 YR				
FAULTS, FRACTURES					
FOLD ELEMENTS	1-3 YR				
GRAVITY FIELD STRENGTH	1 YR				
LINEAMENTS	3-5 YR				
MAGNETIC FIELD STRENGTH					
ROCK ALTERATION	2-3 YR				
ROCK FORMATION	3 YR				
ROCK TYPE					
STRATA ATTITUDE	1-3 YR				
STRUCTURAL ANOMALIES					
TERRAIN TYPE					
THERMAL ANOMALIES					
VEGETATIVE PATTERNS	4 MON				

DISCIPLINE TITLE - NON-RENEWABLE RESOURCES
 APPLICATION TITLE - METAL AND ORE EXPLORATION
 SUBAPPLICATION TITLE - IRON ORE EXPLORATION
 TREE - 12.1.1.1.9

PARAMETER	REFER.	DES ACCUR	BASD ACCUR	ACCUR UNITS	LOW HORIZ RESOL.	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL.	VERT RESOL UNITS	FRESHNESS
COLOR, TONAL PATTERNS	L-10				15 0	300. 0	M				
CRUSTAL UPLIFT, SUBSIDENCE	L-10	5		CM							
DRAINAGE PATTERNS	L-10				15 0	300. 0	M				2 MON
FAULTS, FRACTURES	L-10				10 0	20 0	M				
FOLD ELEMENTS	L-10				30 0	300 0	M				1-3 YR
GRAVITY FIELD STRENGTH	L-10				100. 0	100 0	KM				
LINEAMENTS	L-10				15. 0	300 0	M				2 MON
MAGNETIC FIELD STRENGTH	L-10	. 001		EMU/CC	100 0	100 0	KM				1 YR
ROCK ALTERATION	L-10				30. 0	300 0	2 MON				
ROCK FORMATION	L-10				30. 0	300 0	M				
ROCK TYPE	L-10				30 0	300 0	M				
STRATA ATTITUDE	L-10				10.	30.	M				
STRUCTURAL ANOMALIES	L-10				10. 0	300. 0	M				
TERRAIN TYPE	L-10				30 0	300. 0	M				2 MON
THERMAL ANOMALIES	L-10				10 0	30. 0	M				
VEGETATIVE PATTERNS	L-10	95.		%	15 0	300 0	M				MON

DISCIPLINE TITLE - NON-RENEWABLE RESOURCES
 APPLICATION TITLE - METAL AND ORE EXPLORATION
 SUBAPPLICATION TITLE - IRON ORE EXPLORATION
 TREE - 12.1 1.1.9

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
COLOR, TONAL PATTERNS					
CRUSTAL UPLIFT, SUBSIDENCE	1-3 YR				
DRAINAGE PATTERNS	3 YR				
FAULTS, FRACTURES					
FOLD ELEMENTS					
GRAVITY FIELD STRENGTH	1 YR				
LINEAMENTS	3-5 YR				
MAGNETIC FIELD STRENGTH					
ROCK ALTERATION	2-3 YR				
ROCK FORMATION	3 YR				
ROCK TYPE					
STRATA ATTITUDE	1-3 YRS				
STRUCTURAL ANOMALIES					
TERRAIN TYPE					
THERMAL ANOMALIES					
VEGETATIVE PATTERNS	4 MON				

DISCIPLINE TITLE - NON-RENEWABLE RESOURCES
 APPLICATION TITLE - METAL AND ORE EXPLORATION
 SUBAPPLICATION TITLE - BAUXITE EXPLORATION
 TREE - 12 1.1.1.10

PARAMETER	REFER	DES ACCUR.	BASD ACCUR.	ACCUR. UNITS	LOW HORIZ RESOL.	HIGH HORIZ RESOL	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL.	VERT RESOL UNITS	FRESHNESS
COLOR, TONAL PATTERNS	L-10				15.0	300.0	M				
DRAINAGE PATTERNS	L-10				15.0	300.0	M				2 MON
FOLD ELEMENTS	L-10				30.0	300.0	M				
ROCK ALTERATION	L-10				30.0	300.0	M				2 MON
ROCK FORMATION	L-10				30.0	300.0	M				
ROCK TYPE	L-10				30.0	300.0	M				
STRATA ATTITUDE	L-10				10.0	30.0	M				
VEGETATIVE PATTERNS	L-10	5.		%	15.0	300.0	K				MON

DISCIPLINE TITLE - NON-RENEWABLE RESOURCES
 APPLICATION TITLE - METAL AND ORE EXPLORATION
 SUBAPPLICATION TITLE - BAUXITE EXPLORATION
 TREE - 12 1. 1 1 10

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
COLOR, TONAL PATTERNS	3 YR				
DRAINAGE PATTERNS	1-3 YR				
FOLD ELEMENTS	2-3 YR				
ROCK ALTERATION	3 YR				
ROCK FORMATION					
ROCK TYPE					
STRATA ATTITUDE	1-3 YR				
VEGETATIVE PATTERNS	4 MON				

DISCIPLINE TITLE - NON-RENEWABLE RESOURCES
 APPLICATION TITLE - HYDROCARBON & ENERGY-PRODUCING RESOURCES
 SUBAPPLICATION TITLE - OIL AND GAS EXPLORATION
 TREE - 12. 1. 1. 2. 1

PARAMETER	REFER.	DES. ACCUR.	BASD ACCUR	ACCUR. UNITS	LOW HORIZ RESOL.	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL.	VERT RESOL UNITS	FRESHNESS
COLOR, TONAL PATTERNS	L-10				15.0	300.0	M				
COLOR, TONAL PATTERNS	G-17				100		M				
CRUSTAL UPLIFT, SUBSIDENCE	L-10	5.		CM							MON
DRAINAGE PATTERNS	L-10				15.	300.	M				2 MON
DRAINAGE PATTERNS	G-17				100		M				MON
DRAINAGE PATTERNS	G-4				100						1 MON
FAULTS, FRACTURES	L-10				10	20	M				
FAULTS, FRACTURES	G-17				100		M				MON
FOLD ELEMENTS	L-10				30.	300.	M				
GRAVITY FIELD STRENGTH	L-10				100.		KM				
LINEAMENTS	L-10				15	300.	M				2 MON
LINEAMENTS	G-17				100.		M				MON
LINEAMENTS	G-4				100		M				1 MON
MAGNETIC FIELD STRENGTH	L-10	.001		EMU/CC	100		KM				1 YR
ROCK ALTERATION	L-10				30.0	300.0	M				2 MON
ROCK FORMATION	L-10				30.0	300.0	M				
ROCK TYPE	L-10				30.0	300.0	M				
ROCK TYPE	G-17				100.		M				MON
ROCK TYPE	G-4				100.		M				1 MON
STRATA ATTITUDE	L-10				10.	30	M				
STRUCTURAL ANOMALIES	L-10				10.	300.	M				
STRUCTURAL FEATURES	G-4				100.						1 MON
TERRAIN TYPE	L-10				30	300.	M				2 MON
THERMAL ANOMALIES	L-10				10	30.	M				
TOPOGRAPHIC FEATURES	G-17				100.		M				MON
VEGETATIVE PATTERNS	L-10	95.		%	15.0	300.0	M				MON

DISCIPLINE TITLE - NON-RENEWABLE RESOURCES
 APPLICATION TITLE - HYDROCARBON & ENERGY-PRODUCING RESOURCES
 SUBAPPLICATION TITLE - OIL AND GAS EXPLORATION
 TREE - 12 1 1.2 1

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
COLOR, TONAL PATTERNS	YR				
COLOR, TONAL PATTERNS	1-3 YR		LOCAL	SEASONAL	
CRUSTAL UPLIFT, SUBSIDENCE	3 YRS				
DRAINAGE PATTERNS	YR		LOCAL	SEASONAL	
DRAINAGE PATTERNS			REGIONAL	SUMMER	
FAULTS, FRACTURES	YR		LOCAL	SEASONAL	
FAULTS, FRACTURES	1-3 YRS				
FOLD ELEMENTS	1 YR				
GRAVITY FIELD STRENGTH	3-5 YRS		LOCAL	SEASONAL	
LINEAMENTS	YR		REGIONAL	SUMMER	
LINEAMENTS					
MAGNETIC FIELD STRENGTH					
ROCK ALTERATION	2-3 YR				
ROCK FORMATION	3 YR				
ROCK TYPE	YR		LOCAL	SEASONAL	
ROCK TYPE			REGIONAL	SUMMER	
STRATA ATTITUDE	1-3 YRS				
STRUCTURAL ANOMALIES					
STRUCTURAL FEATURES			REGIONAL	SUMMER	
TERRAIN TYPE					
THERMAL ANOMALIES	YR		LOCAL	SEASONAL	
TOPOGRAPHIC FEATURES	4 MON				
VEGETATIVE PATTERNS					

DISCIPLINE TITLE - NON-RENEWABLE RESOURCES
 APPLICATION TITLE - HYDROCARBON & ENERGY-PRODUCING RESOURCES
 SUBAPPLICATION TITLE - GEOTHERMAL SOURCE EXPLORATION
 TREE - 12.1 1.2.2

PARAMETER	REFER.	DES ACCUR.	BASD ACCUR.	ACCUR. UNITS	LOW HORIZ RESOL.	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL.	VERT RESOL UNITS	FRESHNESS
COLOR, TONAL PATTERNS	L-10				15.	300.	M				
CRUSTAL UPLIFT, SUBSIDENCE	L-10	5.		CM							
DRAINAGE PATTERNS	L-10				15.	300.	M				2 MON
FAULTS, FRACTURES	L-10				10.	30.	M				
FOLD ELEMENTS	L-10				30.	300.	M				
GRAVITY FIELD STRENGTH	L-10				100		KM				
LINEAMENTS	L-10				15.	300.	M				2 MON
MAGNETIC FIELD STRENGTH	L-10	.001		EMU/CC	100.		KM				1 YR
ROCK ALTERATION	L-10				30.	300.	M				2 MON
ROCK FORMATION	L-10				30.	300.	M				
ROCK TYPE	L-10				30.	300.	M				
STRATA ATTITUDE	L-10				10.	30.	M				
STRUCTURAL ANOMALIES	L-10				10.	300.	M				
TERRAIN TYPE	L-10				30.	300.	M				2 MON
THERMAL ANOMALIES	L-10				10.	30.	M				
VEGETATIVE PATTERNS	L-10	95.		%	15.	300.	M				MON

DISCIPLINE TITLE - NON-RENEWABLE RESOURCES
 APPLICATION TITLE - HYDROCARBON & ENERGY-PRODUCING RESOURCES
 SUBAPPLICATION TITLE - GEOTHERMAL SOURCE EXPLORATION
 TREE - 12.1 1.2.2

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
COLOR, TONAL PATTERNS					
CRUSTAL UPLIFT, SUBSIDENCE	1-3 YR				
DRAINAGE PATTERNS	3 YR				
FAULTS, FRACTURES					
FOLD ELEMENTS	1-3 YR				
GRAVITY FIELD STRENGTH	1 YR				
LINEAMENTS	3-5 YR				
MAGNETIC FIELD STRENGTH					
ROCK ALTERATION	2-3 YR				
ROCK FORMATION	3 YR				
ROCK TYPE					
STRATA ATTITUDE	1-3 YR				
STRUCTURAL ANOMALIES					
TERRAIN TYPE					
THERMAL ANOMALIES					
VEGETATIVE PATTERNS	4 MON				

DISCIPLINE TITLE - NON-RENEWABLE RESOURCES
 APPLICATION TITLE - HYDROCARBON & ENERGY-PRODUCING RESOURCES
 SUBAPPLICATION TITLE - SEDIMENTARY URANIUM EXPLORATION
 TREE - 12.1.1.2.3

PARAMETER	REFER	DES. ACCUR.	BASD ACCUR.	ACCUR UNITS	LOW HORIZ RESOL.	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL.	VERT RESOL UNITS	FRESHNESS
COLOR, TONAL PATTERNS	L-10				15.	300.	M				
CRUSTAL UPLIFT, SUBSIDENCE	L-10	5.		CM							
DRAINAGE PATTERNS	L-10				15.	300.	M				2 MON
FAULTS, FRACTURES	L-10				10.	20.	M				
FOLD ELEMENTS	L-10				30.	300.	M				
GRAVITY FIELD STRENGTH	L-10				100.		KM				
LINEAMENTS	L-10				15.	300.	M				2 MON
MAGNETIC FIELD STRENGTH	L-10	.001		EMU/CC	100.		KM				1 YR
ROCK ALTERATION	L-10				30.	300.	M				2 MON
ROCK FORMATION	L-10				30.	300.	M				
ROCK TYPE	L-10				30.	300.	M				
STRATA ATTITUDE	L-10				10.	30.	M				
STRUCTURAL ANOMALIES	L-10				10.	300.	M				
TERRAIN TYPE	L-10				30.	300.	M				2 MON
THERMAL ANOMALIES	L-10				10.	30.	M				
VEGETATIVE PATTERNS	L-10	95.		%	15.	300.	M				MON

DISCIPLINE TITLE - NON-RENEWABLE RESOURCES
 APPLICATION TITLE - HYDROCARBON & ENERGY-PRODUCING RESOURCES
 SUBAPPLICATION TITLE - SEDIMENTARY URANIUM EXPLORATION
 TREE - 12 1 1.2 3

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
COLOR, TONAL PATTERNS					
CRUSTAL UPLIFT, SUBSIDENCE	1-3 YRS				
DRAINAGE PATTERNS	3 YR				
FAULTS, FRACTURES					
FOLD ELEMENTS	1-3 YR				
GRAVITY FIELD STRENGTH	1 YR				
LINEAMENTS	3-5 YR				
MAGNETIC FIELD STRENGTH					
ROCK ALTERATION	2-3 YRS				
ROCK FORMATION	3 YRS				
ROCK TYPE					
STRATA ATTITUDE	1-3 YR				
STRUCTURAL ANOMALIES					
TERRAIN TYPE					
THERMAL ANOMALIES					
VEGETATIVE PATTERNS	4 MON				

DISCIPLINE TITLE - NON-RENEWABLE RESOURCES
 APPLICATION TITLE - HYDROCARBON & ENERGY-PRODUCING RESOURCES
 SUBAPPLICATION TITLE - URANIUM IN IGNEOUS&METAMORPHIC ROCK EXPLORATION
 TREE - 12.1 1.2.4

PARAMETER	REFER	DES ACCUR	BASD ACCUR	ACCUR UNITS	LOW HORIZ RESOL.	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL	VERT RESOL UNITS	FRESHNESS
COLOR, TONAL PATTERNS	L-10				15.	300.	M				
CRUSTAL UPLIFT, SUBSIDENCE	L-10	5.		CM							
DRAINAGE PATTERNS	L-10				15.	300	M				2 MON
FAULTS, FRACTURES	L-10				10.	20.	M				
FOLD ELEMENTS	L-10				30	300.	M				
GRAVITY FIELD STRENGTH	L-10				100.		KM				
LINEAMENTS	L-10				15	300.	M				2 MON
MAGNETIC FIELD STRENGTH	L-10	.001		EMU/CC	100.		KM				1 YR
ROCK ALTERATION	L-10				30	300.	M				2 MON
ROCK FORMATION	L-10				30.	300	M				
ROCK TYPE	L-10				30	300.	M				
STRATA ATTITUDE	L-10				10	30.	M				
STRUCTURAL ANOMALIES	L-10				10.	300.	M				
TERRAIN TYPE	L-10				30	300	M				2 MON
THERMAL ANOMALIES	L-10				10.	30	M				
VEGETATIVE PATTERNS	L-10	95		%	15.	300.	M				MON

DISCIPLINE TITLE - NON-RENEWABLE RESOURCES
 APPLICATION TITLE - HYDROCARBON & ENERGY-PRODUCING RESOURCES
 SUBAPPLICATION TITLE - URANIUM IN IGNEOUS&METAMORPHIC ROCK EXPLORATION
 TREE - 12.1 1.2 4

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
COLOR, TONAL PATTERNS					
CRUSTAL UPLIFT, SUBSIDENCE	1-3 YRS				
DRAINAGE PATTERNS	3 YR				
FAULTS, FRACTURES					
FOLD ELEMENTS	1-3 YR				
GRAVITY FIELD STRENGTH	1 YR				
LINEAMENTS	3-5 YRS				
MAGNETIC FIELD STRENGTH					
ROCK ALTERATION	2-3 YRS				
ROCK FORMATION	3 YRS				
ROCK TYPE					
STRATA ATTITUDE	1-3 YR				
STRUCTURAL ANOMALIES					
TERRAIN TYPE					
THERMAL ANOMALIES					
VEGETATIVE PATTERNS	4 MON				

DISCIPLINE TITLE - NON-RENEWABLE RESOURCES
 APPLICATION TITLE - HYDROCARBON & ENERGY-PRODUCING RESOURCES
 SUBAPPLICATION TITLE - COAL EXPLORATION
 TREE - 12 1. 1. 2. 5

PARAMETER	REFER.	DES. ACCUR.	BASD ACCUR.	ACCUR. UNITS	LOW HORIZ RESOL.	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL.	VERT RESOL UNITS	FRESHNESS
COLOR, TONAL PATTERNS	L-10				15.	300.	M				
CRUSTAL UPLIFT, SUBSIDENCE	L-10	5.		CM							
DRAINAGE PATTERNS	L-10				15.	300.	M				
FAULTS, FRACTURES	L-10				10	20	M				2 MON
FOLD ELEMENTS	L-10				30	300.	M				
GRAVITY FIELD STRENGTH	L-10				100		KM				
LINEAMENTS	L-10				15	300.	M				2 MON
MAGNETIC FIELD STRENGTH	L-10	.001		EMU/CC	100		KM				1 YR
ROCK ALTERATION	L-10				30.	300.	M				2 MON
ROCK FORMATION	L-10				30.	300.	M				
ROCK TYPE	L-10				30	300.	M				
STRATA ATTITUDE	L-10				10	30	M				
STRUCTURAL ANOMALIES	L-10				10.	300.	M				
TERRAIN TYPE	L-10				30.	300.	M				2 MON
THERMAL ANOMALIES	L-10				10.	30.	M				
VEGETATIVE PATTERNS	L-10	95.		%	15.	300.	M				MON

DISCIPLINE TITLE - NON-RENEWABLE RESOURCES
 APPLICATION TITLE - HYDROCARBON & ENERGY-PRODUCING RESOURCES
 SUBAPPLICATION TITLE - COAL EXPLORATION
 TREE - 12 1 1.2 5

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
COLOR, TONAL PATTERNS					
CRUSTAL UPLIFT, SUBSIDENCE	1-3 YRS				
DRAINAGE PATTERNS	3 YR				
FAULTS, FRACTURES					
FOLD ELEMENTS	1-3 YR				
GRAVITY FIELD STRENGTH	1 YR				
LINEAMENTS	3-5 YRS				
MAGNETIC FIELD STRENGTH					
ROCK ALTERATION	2-3 YR				
ROCK FORMATION	3 YR				
ROCK TYPE					
STRATA ATTITUDE	1-3 YR				
STRUCTURAL ANOMALIES					
TERRAIN TYPE					
THERMAL ANOMALIES					
VEGETATIVE PATTERNS	4 MON				

DISCIPLINE TITLE - NON-RENEWABLE RESOURCES
 APPLICATION TITLE - GEOLOGICAL ECONOMIC RESOURCES
 SUBAPPLICATION TITLE - GROUND WATER EXPLORATION
 TREE - 12. 1. 1. 3. 1

PARAMETER	REFER.	DES ACCUR.	BASD ACCUR.	ACCUR. UNITS	LOW HORIZ RESOL.	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL.	VERT RESOL UNITS	FRESHNESS
DRAINAGE PATTERNS	L-10				15	300.	M				
FAULTS, FRACTURES	L-10				10	20	M				
GRAVITY FIELD STRENGTH	L-10				100.		KM				
LINEAMENTS	L-10				15.	300.	M				
ROCK ALTERATION	L-10				30.	300.	M				
ROCK FORMATION	L-10				30	300.	M				
ROCK TYPE	L-10				30.	300.	M				
SOIL MOISTURE	L-10										
STRUCTURAL ANOMALIES	L-10				10	100.	M				
TERRAIN TYPE	L-10				.05	10.	KM				
THERMAL ANOMALIES	L-10				10	30.	M				
TOPOGRAPHIC FEATURES	L-10				30.	300.	M				
VEGETATIVE PATTERNS	L-10	95.		%	15.	300.	M				

DISCIPLINE TITLE - NON-RENEWABLE RESOURCES
 APPLICATION TITLE - GEOLOGICAL ECONOMIC RESOURCES
 SUBAPPLICATION TITLE - GROUND WATER EXPLORATION
 TREE - 12 1 1 3 1

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
DRAINAGE PATTERNS					
FAULTS, FRACTURES					
GRAVITY FIELD STRENGTH					
LINEAMENTS	3-5 YRS				
ROCK ALTERATION					
ROCK FORMATION					
ROCK TYPE					
SOIL MOISTURE					
STRUCTURAL ANOMALIES	4 MON				
TERRAIN TYPE					
THERMAL ANOMALIES				DIURNALLY	
TOPOGRAPHIC FEATURES					
VEGETATIVE PATTERNS	4 MON				

DISCIPLINE TITLE - NON-RENEWABLE RESOURCES
 APPLICATION TITLE - GEOLOGICAL ECONOMIC RESOURCES
 SUBAPPLICATION TITLE - SAND & GRAVEL EXPLORATION
 TREE - 12.1.1.3.2

PARAMETER	REFER.	DES. ACCUR.	BASD ACCUR.	ACCUR. UNITS	LOW HORIZ RESOL.	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL	HIGH VERT RESOL.	VERT RESOL UNITS	FRESHNESS
COLOR, TONAL PATTERNS	L-10				15	300.	M				
CRUSTAL UPLIFT, SUBSIDENCE	L-10	9.		CM							
DRAINAGE PATTERNS	L-10				15	300.	M				2 MON
FAULTS, FRACTURES	L-10				10.	20	M				
FOLD ELEMENTS	L-10				30	300.	M				
GRAVITY FIELD STRENGTH	L-10				100.		MM				
LINEAMENTS	L-10				15.	300.	MM				2 MON
MAGNETIC FIELD STRENGTH	L-10	.001		EMU/CC	100.		MM				1 YR
ROCK ALTERATION	L-10				30.	300	MM				2 MON
ROCK FORMATION	L-10				30.	300.	MM				
ROCK TYPE	L-10				30.	300.	MM				
STRATA ATTITUDE	L-10				10	30	MM				
STRUCTURAL ANOMALIES	L-10				10.	300	MM				
TERRAIN TYPE	L-10				30.	300.	MM				2 MON
THERMAL ANOMALIES	L-10				10.	30	MM				
VEGETATIVE PATTERNS	L-10	5.		%	15	300.	M				MON

DISCIPLINE TITLE - NON-RENEWABLE RESOURCES
 APPLICATION TITLE - GEOLOGICAL ECONOMIC RESOURCES
 SUBAPPLICATION TITLE - SAND & GRAVEL EXPLORATION
 TREE - 12.1 1 3.2

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
COLOR, TONAL PATTERNS					
CRUSTAL UPLIFT, SUBSIDENCE	1-3 YR				
DRAINAGE PATTERNS	3 YR				
FAULTS, FRACTURES					
FOLD ELEMENTS	1-3 YR				
GRAVITY FIELD STRENGTH	1 YR				
LINEAMENTS	3-5 YR				
MAGNETIC FIELD STRENGTH					
ROCK ALTERATION	2-3 YR				
ROCK FORMATION	10 YR				
ROCK TYPE					
STRATA ATTITUDE	1-3 YR				
STRUCTURAL ANOMALIES					
TERRAIN TYPE					
THERMAL ANOMALIES					
VEGETATIVE PATTERNS	4 MON				

DISCIPLINE TITLE - NON-RENEWABLE RESOURCES
 APPLICATION TITLE - GEOLOGICAL ECONOMIC RESOURCES
 SUBAPPLICATION TITLE - SULFUR EXPLORATION
 TREE - 12.1.1.3.3

PARAMETER	REFER.	DES ACCUR	BASD ACCUR	ACCUR. UNITS	LOW HORIZ RESOL.	HIGH HORIZ RESOL	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL.	VERT RESOL UNITS	FRESHNESS
COLOR, TONAL PATTERNS	L-10				15.	300.	M				
CRUSTAL UPLIFT, SUBSIDENCE	L-10	5.		CM							
DRAINAGE PATTERNS	L-10				15.	300	M				2 MON
FAULTS, FRACTURES	L-10				10	20	M				
FOLD ELEMENTS	L-10				30	300	M				
GRAVITY FIELD STRENGTH	L-10				100.		KM				
LINEAMENTS	L-10				15	300.	M				2 MON
MAGNETIC FIELD STRENGTH	L-10	.001		EMU/CC	100		KM				1 YR
ROCK ALTERATION	L-10				30	300.	M				2 MON
ROCK FORMATION	L-10				30	300	M				
ROCK TYPE	L-10				30	300.	M				
STRATA ATTITUDE	L-10				10	30.	M				
STRUCTURAL ANOMALIES	L-10				10.	300.	M				
TERRAIN TYPE	L-10				30.	300.	M				2 MON
THERMAL ANOMALIES	L-10				10	30	M				
VEGETATIVE PATTERNS	L-10	5.		%	15.	300	M				MON

DISCIPLINE TITLE - NON-RENEWABLE RESOURCES
 APPLICATION TITLE - GEOLOGICAL ECONOMIC RESOURCES
 SUBAPPLICATION TITLE - SULFUR EXPLORATION
 TREE - 12 1 1.3 3

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
COLOR, TONAL PATTERNS					
CRUSTAL UPLIFT, SUBSIDENCE	1-3 YR				
DRAINAGE PATTERNS	3 YRS				
FAULTS, FRACTURES					
FOLD ELEMENTS	1-3 YRS				
GRAVITY FIELD STRENGTH	1 YR				
LINEAMENTS	3-5 YR				
MAGNETIC FIELD STRENGTH					
ROCK ALTERATION	2-3 YRS				
ROCK FORMATION	3 YRS				
ROCK TYPE					
STRATA ATTITUDE	1-3 YRS				
STRUCTURAL ANOMALIES					
TERRAIN TYPE					
THERMAL ANOMALIES					
VEGETATIVE PATTERNS	4 MON				

DISCIPLINE TITLE - NON-RENEWABLE RESOURCES
 APPLICATION TITLE - GEOLOGICAL ECONOMIC RESOURCES
 SUBAPPLICATION TITLE - PHOSPHATE EXPLORATION
 TREE - 12.1.1.3.4

PARAMETER	REFER.	DES ACCUR.	BASD ACCUR.	ACCUR UNITS	LOW HORIZ RESOL	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL.	VERT RESOL UNITS	FRESHNESS
COLOR, TONAL PATTERNS	L-10				15.	300.	M				
CRUSTAL UPLIFT, SUBSIDENCE	L-10	5.		CM							
DRAINAGE PATTERNS	L-10				15	300	M				2 MON
FAULTS, FRACTURES	L-10				10	20	M				
FOLD ELEMENTS	L-10				30	300	M				
GRAVITY FIELD STRENGTH	L-10				100		KM				
LINEAMENTS	L-10				15	300.	M				2 MON
MAGNETIC FIELD STRENGTH	L-10	.001		EMU/CC	100		KM				1 YR
ROCK ALTERATION	L-10				30	300	M				2 MON
ROCK FORMATION	L-10				30	300.	M				
ROCK TYPE	L-10				30.	300.	M				
STRATA ATTITUDE	L-10				10	30	M				
STRUCTURAL ANOMALIES	L-10				10	300.	M				
TERRAIN TYPE	L-10				30	300.	M				2 MON
THERMAL ANOMALIES	L-10				10.	30.	M				
VEGETATIVE PATTERNS	L-10	5		%	15.	300	M				MON

DISCIPLINE TITLE - NON-RENEWABLE RESOURCES
 APPLICATION TITLE - GEOLOGICAL ECONOMIC RESOURCES
 SUBAPPLICATION TITLE - PHOSPHATE EXPLORATION
 TREE - 12 1 1 3 4

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
COLOR, TONAL PATTERNS	1-3 YR				
CRUSTAL UPLIFT, SUBSIDENCE	3 YR				
DRAINAGE PATTERNS					
FAULTS, FRACTURES					
FOLD ELEMENTS	1-3 YR				
GRAVITY FIELD STRENGTH	1 YR				
LINEAMENTS	3-5 YR				
MAGNETIC FIELD STRENGTH					
ROCK ALTERATION	2-3 YRS				
ROCK FORMATION	3 YR				
ROCK TYPE					
STRATA ATTITUDE	1-3 YR				
STRUCTURAL ANOMALIES					
TERRAIN TYPE					
THERMAL ANOMALIES					
VEGETATIVE PATTERNS	6 MON				

DISCIPLINE TITLE - NON-RENEWABLE RESOURCES
 APPLICATION TITLE - GEOLOGICAL ECONOMIC RESOURCES
 SUBAPPLICATION TITLE - LIMESTONE & DOLOMITE EXPLORATION
 TREE - 12 1.1.3.5

PARAMETER	REFER.	DES ACCUR.	BASED ACCUR	ACCUR. UNITS	LOW HORIZ RESOL.	HIGH HORIZ RESOL	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL.	VERT RESOL UNITS	FRESHNESS
COLOR, TONAL PATTERNS	L-10				15.	300	M				
CRUSTAL UPLIFT, SUBSIDENCE	L-10	5.		CM							
DRAINAGE PATTERNS	L-10				15.	300.	M				
FAULTS, FRACTURES	L-10				10.	20	M				2 MON
FOLD ELEMENTS	L-10				30	300.	M				
GRAVITY FIELD STRENGTH	L-10				100		KM				
LINEAMENTS	L-10				15.	300	M				2 MON
MAGNETIC FIELD STRENGTH	L-10	.001		EMU/CC	100		KM				1 YR
ROCK ALTERATION	L-10				30.	300.	M				2 MON
ROCK FORMATION	L-10				30	300.	M				
ROCK TYPE	L-10				30	300.	M				
STRATA ATTITUDE	L-10				10	30	M				
STRUCTURAL ANOMALIES	L-10				10.	300.	M				
TERRAIN TYPE	L-10				30.	300.	M				2 MON
THERMAL ANOMALIES	L-10				10	30.	M				
VEGETATIVE PATTERNS	L-10	5.		%	15	300.	M				MON

DISCIPLINE TITLE - NON-RENEWABLE RESOURCES
 APPLICATION TITLE - GEOLOGICAL ECONOMIC RESOURCES
 SUBAPPLICATION TITLE - LIMESTONE & DOLOMITE EXPLORATION
 TREE - 12 1 1.3 5

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
COLOR, TONAL PATTERNS					
CRUSTAL UPLIFT, SUBSIDENCE	1-3 YR				
DRAINAGE PATTERNS	3 YR				
FAULTS, FRACTURES					
FOLD ELEMENTS	1-3 YR				
GRAVITY FIELD STRENGTH	1 YR				
LINEAMENTS	3-5 YRS				
MAGNETIC FIELD STRENGTH					
ROCK ALTERATION	2-3 YR				
ROCK FORMATION	3 YR				
ROCK TYPE					
STRATA ATTITUDE	1-3 YR				
STRUCTURAL ANOMALIES					
TERRAIN TYPE					
THERMAL ANOMALIES					
VEGETATIVE PATTERNS	4 MON				

DISCIPLINE TITLE - NON-RENEWABLE RESOURCES
 APPLICATION TITLE - GEOLOGICAL ECONOMIC RESOURCES
 SUBAPPLICATION TITLE - CLAY MINERALS EXPLORATION
 TREE - 12 1. 1. 3. 6

PARAMETER	REFER.	DES ACCUR	BASD ACCUR	ACCUR UNITS	LOW HORIZ RESOL.	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL.	VERT RESOL UNITS	FRESHNESS
COLOR, TONAL PATTERNS	L-10				15	300	M				
CRUSTAL UPLIFT, SUBSIDENCE	L-10	5		CM							
DRAINAGE PATTERNS	L-10				15	300	M				2 MON
FAULTS, FRACTURES	L-10				10	20	M				
FOLD ELEMENTS	L-10				30	300	M				
GRAVITY FIELD STRENGTH	L-10				100		KM				
LINEAMENTS	L-10				15	300	M				2 MON
MAGNETIC FIELD STRENGTH	L-10	001		EMU/CC	100		KM				1 YR
ROCK ALTERATION	L-10				30	300	M				2 MON
ROCK FORMATION	L-10				30	300	M				
ROCK TYPE	L-10				30	300	M				
STRATA ATTITUDE	L-10				10	30	M				
STRUCTURAL ANOMALIES	L-10				10	300	M				
TERRAIN TYPE	L-10				30	300	M				2 MON
THERMAL ANOMALIES	L-10				10	30	M				
VEGETATIVE PATTERNS	L-10	5		%	15	300	M				MON

DISCIPLINE TITLE - NON-RENEWABLE RESOURCES
 APPLICATION TITLE - GEOLOGICAL ECONOMIC RESOURCES
 SUBAPPLICATION TITLE - CLAY MINERALS EXPLORATION
 TREE - 12.1 1 3 6

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
COLOR, TONAL PATTERNS					
CRUSTAL UPLIFT, SUBSIDENCE	1-3 YR				
DRAINAGE PATTERNS	3 YR				
FAULTS, FRACTURES					
FOLD ELEMENTS	1-3 YR				
GRAVITY FIELD STRENGTH	1 YR				
LINEAMENTS	3-5 YR				
MAGNETIC FIELD STRENGTH					
ROCK ALTERATION	2-3 YR				
ROCK FORMATION	3 YR				
ROCK TYPE					
STRATA ATTITUDE	1-3 YR				
STRUCTURAL ANOMALIES					
TERRAIN TYPE					
THERMAL ANOMALIES					
VEGETATIVE PATTERNS	4 MON				

DISCIPLINE TITLE - NON-RENEWABLE RESOURCES
 APPLICATION TITLE - GEOLOGICAL ECONOMIC RESOURCES
 SUBAPPLICATION TITLE - EVAPORITES EXPLORATION
 TREE - 12.1.1.3.7

PARAMETER	REFER	DES ACCUR.	BASD ACCUR	ACCUR. UNITS	LOW HORIZ RESOL	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL.	VERT RESOL UNITS	FRESHNESS
COLOR, TONAL PATTERNS	L-10				15.	300.	M				
CRUSTAL UPLIFT, SUBSIDENCE	L-10	5		CM							
DRAINAGE PATTERNS	L-10				15.	300.	M				2 MON
FAULTS, FRACTURES	L-10				10	20	M				
FOLD ELEMENTS	L-10				30	300.	M				
GRAVITY FIELD STRENGTH	L-10				100		KM				
LINEAMENTS	L-10				15	300	M				2 MON
MAGNETIC FIELD STRENGTH	L-10	001		EMU/CC	100		KM				1 YR
ROCK ALTERATION	L-10				30	300	M				2 MON
ROCK FORMATION	L-10				30.	300.	M				
ROCK TYPE	L-10				30.	300.	M				
STRATA ATTITUDE	L-10				10.	30.	M				
STRUCTURAL ANOMALIES	L-10				10.	300.	M				
TERRAIN TYPE	L-10				30.	300.	M				2 MON
THERMAL ANOMALIES	L-10				10.	30	M				
VEGETATIVE PATTERNS	L-10	5.		%	15.	300.	M				MON

DISCIPLINE TITLE - NON-RENEWABLE RESOURCES
 APPLICATION TITLE - GEOLOGICAL ECONOMIC RESOURCES
 SUBAPPLICATION TITLE - EVAPORITIES EXPLORATION
 TREE - 12 1 1 3 7

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
COLOR, TONAL PATTERNS					
CRUSTAL UPLIFT, SUBSIDENCE	1-3 YR				
DRAINAGE PATTERNS	3 YR				
FAULTS, FRACTURES					
FOLD ELEMENTS	1-3 YR				
GRAVITY FIELD STRENGTH	1 YR				
LINEAMENTS	3-5 YR				
MAGNETIC FIELD STRENGTH					
ROCK ALTERATION	2-3 YR				
ROCK FORMATION	3 YR				
ROCK TYPE					
STRATA ATTITUDE	1-3 YR				
STRUCTURAL ANOMALIES					
TERRAIN TYPE					
THERMAL ANOMALIES					
VEGETATIVE PATTERNS	4 MON				

DISCIPLINE TITLE - NON-RENEWABLE RESOURCES
 APPLICATION TITLE - GEOLOGICAL ECONOMIC RESOURCES
 SUBAPPLICATION TITLE - POTASH EXPLORATION
 TREE - 12.1 1 3 8

PARAMETER	REFER	DES. ACCUR.	BASD ACCUR	ACCUR. UNITS	LOW HORIZ RESOL	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL	HIGH VERT RESOL.	VERT RESOL UNITS	FRESHNESS
COLOR, TONAL PATTERNS	L-10				15	300.	M				
CRUSTAL UPLIFT, SUBSIDENCE	L-10	5		CM							
DRAINAGE PATTERNS	L-10				15	300.	M				2 MON
FAULTS, FRACTURES	L-10				10	20	M				
FOLD ELEMENTS	L-10				30	300	M				
GRAVITY FIELD STRENGTH	L-10				100		KM				
LINEAMENTS	L-10				15	300.	M				2 MON
MAGNETIC FIELD STRENGTH	L-10	.001		EMU/CC	100.		KM				1 YR
ROCK ALTERATION	L-10				30	300.	M				2 MON
ROCK FORMATION	L-10				30	300	M				
ROCK TYPE	L-10				30	300	M				
STRATA ATTITUDE	L-10				10	30.	M				
STRUCTURAL ANOMALIES	L-10				10	300.	M				
TERRAIN TYPE	L-10				30	300.	M				2 MON
THERMAL ANOMALIES	L-10				10	30	M				
VEGETATIVE PATTERNS	L-10	5.		%	15	300.	M				MON

DISCIPLINE TITLE - NON-RENEWABLE RESOURCES
 APPLICATION TITLE - GEOLOGICAL ECONOMIC RESOURCES
 SUBAPPLICATION TITLE - POTASH EXPLORATION
 TREE - 12 1.1 3 8

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
COLOR, TONAL PATTERNS	1-3 YR				
CRUSTAL UPLIFT, SUBSIDENCE	3 YR				
DRAINAGE PATTERNS					
FAULTS, FRACTURES	1-3 YR				
FOLD ELEMENTS	1 YR				
GRAVITY FIELD STRENGTH	3-5 YR				
LINEAMENTS					
MAGNETIC FIELD STRENGTH	2-3 YR				
ROCK ALTERATION	3 YR				
ROCK FORMATION					
ROCK TYPE	1-3 YR				
STRATA ATTITUDE					
STRUCTURAL ANOMALIES					
TERRAIN TYPE					
THERMAL ANOMALIES					
VEGETATIVE PATTERNS	4 MON				

DISCIPLINE TITLE - NON-RENEWABLE RESOURCES
 APPLICATION TITLE - GEOLOGICAL MAPPING FOR RESOURCE EXPLORATION
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 12.1 2

PARAMETER	REFER.	DES ACCUR.	BASD ACCUR.	ACCUR. UNITS	LOW HORIZ RESOL.	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL.	VERT RESOL UNITS	FRESHNESS
COLOR, TONAL PATTERNS	G-1				100.		M				MON
DRAINAGE PATTERNS	G-1				100		M				MON
DRAINAGE PATTERNS	G-2	95		%	30	100.	M				MON
FAULTS, FRACTURES	G-1				100.		M				MON
FAULTS, FRACTURES	G-2	95.		%	30	100.	M				MON
LAND COVER TYPE	G-2	95.		%	30	100.	M				MON
LINEAMENTS	G-1				100.		M				MON
LINEAMENTS	G-1				100		M				MON
ROCK TYPE	G-1				100.		M				MON
ROCK TYPE	G-2	95.		%	30	100.	M				MON
SLOPE, RELIEF	G-1				100		M				MON
STRUCTURAL FEATURES	G-1				100		M				MON
STRUCTURAL FEATURES	G-2	95.		%	30	100.	M				MON
TERRAIN TYPE	G-1				100.		M				MON
TERRAIN TYPE	G-2	95.		%	30	100.	M				MON
TOPOGRAPHIC FEATURES	G-1				100		M				MON

DISCIPLINE TITLE - NON-RENEWABLE RESOURCES
 APPLICATION TITLE - GEOLOGICAL MAPPING FOR RESOURCE EXPLORATION
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 12.1 2

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
COLOR, TONAL PATTERNS			LOCAL	SEASONAL	L-O L/S
DRAINAGE PATTERNS			LOCAL	SEASONAL	VL-O L/S
DRAINAGE PATTERNS	3-5 YR		REGIONAL	FALL-SPRING	L-O L/S
FAULTS, FRACTURES			LOCAL	SEASONAL	L-O L/S
FAULTS, FRACTURES	3-5 YR		REGIONAL	FALL-SPRING	L-O L/S
LAND COVER TYPE	3-5 YR		REGIONAL	FALL-SPRING	L-O L/S
LINEAMENTS			LOCAL	SEASONAL	L-O L/S
LINEAMENTS			LOCAL	SEASONAL	L-O L/S
ROCK TYPE			LOCAL	SEASONAL	L-O L/S
ROCK TYPE	3-5 YR		REGIONAL	FALL-SPRING	L-O L/S
SLOPE, RELIEF			LOCAL	SEASONAL	L-O L/S
STRUCTURAL FEATURES			LOCAL	SEASONAL	L-O L/S
STRUCTURAL FEATURES	3-5 YR		REGIONAL	FALL-SPRING	L-O L/S
TERRAIN TYPE			LOCAL	SEASONAL	WYOMING RESOURCES STUDY
TERRAIN TYPE	3-5 YR		REGIONAL	FALL-SPRING	L-O L/S
TOPOGRAPHIC FEATURES			LOCAL	SEASONAL	L-O L/S

DISCIPLINE TITLE - NON-RENEWABLE RESOURCES
 APPLICATION TITLE - STRUCTURAL GEOLOGIC MAPPING
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 12. 1. 2. 1

PARAMETER	REFER.	DES. ACCUR.	BASD ACCUR	ACCUR. UNITS	LOW HORIZ RESOL	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL	HIGH VERT RESOL.	VERT RESOL UNITS	FRESHNESS
CRUSTAL UPLIFT, SUBSIDENCE	L-1	20.		M							
FAULTS, FRACTURES	L-1	20.		M							
FOLD ELEMENTS	L-1	20		M							

DISCIPLINE TITLE - NON-RENEWABLE RESOURCES
 APPLICATION TITLE - STRUCTURAL GEOLOGIC MAPPING
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 12 1 2 1

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
CRUSTAL UPLIFT, SUBSIDENCE	1 YR				
FAULTS, FRACTURES					
FOLD ELEMENTS	1 YR				

DISCIPLINE TITLE - NON-RENEWABLE RESOURCES
 APPLICATION TITLE - STRUCTURAL GEOLOGIC MAPPING
 SUBAPPLICATION TITLE - ROCK TYPE MAPPING
 TREE - 12 1. 2. 1 1

PARAMETER	REFER.	DES. ACCUR.	BASED ACCUR.	ACCUR. UNITS	LOW HORIZ RESOL	HIGH HORIZ RESOL	HORIZ RES UNITS	LOW VERT RESOL	HIGH VERT RESOL	VERT RESOL UNITS	FRESHNESS
ALTERATION FEATURES	L-159	70.		%							
COLOR, TONAL PATTERNS	G-4				30.	100.	M				MON
COLOR, TONAL PATTERNS	G-5				30.	100	M				MON
COLOR, TONAL PATTERNS	L-159	90.		%							
MINERAL SUBSTANCES	L-159	70		%							
PLANT TYPE	L-1	5		%	20		M				1 YR
ROCK ALTERATION	L-158	80	50	%	20.		M				
ROCK TYPE	G-4				30	100.	M				MON
ROCK TYPE	G-5				30.	100	M				MON
ROCK TYPE	L-1				10		M				1 YR
ROCK TYPE	L-159	65		%							
ROCK TYPE	L-15.	80.	30	%	20		M				
SOIL TEXTURE	L-158				20		M				
SOIL TYPE	G-4				30	100	M				MON
SOIL TYPE	L-158				20		M				
STRATA ATTITUDE	G-4				30	100	M				MON
STRUCTURAL FEATURES	G-5				30	100	M				MON
SURFACE TEMP	L-159	90		%							
TERRAIN TYPE	G-4				30.	100.	M				MON
TERRAIN TYPE	L-158				20.		M				
THERMAL PROPERTIES	L-159	85		%							
TOPOGRAPHIC FEATURES	L-158				20.		M				
VEGETATIVE CONDITION	L-1				20		M				1 YR
VEGETATIVE COVER TYPE	G-4				30	100.	M				MON
VEGETATIVE COVER TYPE	L-158				20		M				

DISCIPLINE TITLE - NON-RENEWABLE RESOURCES
 APPLICATION TITLE - STRUCTURAL GEOLOGIC MAPPING
 SUBAPPLICATION TITLE - ROCK TYPE MAPPING
 TREE - 12 1 2.1 1

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
ALTERATION FEATURES					L-0
COLOR, TONAL PATTERNS			REGIONAL	SUMMER&WINTER	L-0. L/S.
COLOR, TONAL PATTERNS			REGIONAL		L-0 L/S
COLOR, TONAL PATTERNS					L-0
MINERAL SUBSTANCES					L-0
PLANT TYPE					
ROCK ALTERATION	4 MON				
ROCK TYPE			LOCAL		L-0
ROCK TYPE			REGIONAL	SUMMER&WINTER	L/O. L/S
ROCK TYPE			REGIONAL		L-0. L/S
ROCK TYPE	1/5 YR				
ROCK TYPE					L-0
ROCK TYPE			LOCAL		L-0
SOIL TEXTURE			LOCAL		L-0
SOIL TYPE			REGIONAL	SUMMER&WINTER	L-0 L/S
SOIL TYPE			LOCAL		L-0
STRATA ATTITUDE			REGIONAL	SUMMER&WINTER	L-0 L/S
STRUCTURAL FEATURES			REGIONAL		L-0 L/S
SURFACE TEMP					L-0
TERRAIN TYPE			REGIONAL	SUMMER&WINTER	L-0 L/S
TERRAIN TYPE			LOCAL		L-0
THERMAL PROPERTIES					L-0
TOPOGRAPHIC FEATURES			LOCAL		6-0
VEGETATIVE CONDITION					L-0
VEGETATIVE COVER TYPE	4 MON		REGIONAL	SUMMER&WINTER	L-0 L/S
VEGETATIVE COVER TYPE			LOCAL		L-0.

DISCIPLINE TITLE - NON-RENEWABLE RESOURCES
 APPLICATION TITLE - STRUCTURAL GEOLOGIC MAPPING
 SUBAPPLICATION TITLE - LANDFORM MAPPING
 TREE - 12. 1. 2. 1. 3

PARAMETER	REFER.	DES ACCUR.	BASED ACCUR.	ACCUR UNITS	LOW HORIZ RESOL.	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL.	VERT RESOL UNITS	FRESHNESS
COLOR, TONAL PATTERNS	G-8				100.		M				MON
DRAINAGE PATTERNS	G-8	1. 5		KM	100		M				MON
EROSION TYPE	G-8				100		M				MON
FAULTS, FRACTURES	G-8	1. 5		KM	100.		M				MON
LINEAMENTS	G-8	1. 5		KM	100.		M				MON
STRUCTURAL FEATURES	G-8	1. 5		KM	100.		M				MON
TOPOGRAPHIC FEATURES	G-8	1. 5		KM	100.		M				MON

DISCIPLINE TITLE - NON-RENEWABLE RESOURCES
 APPLICATION TITLE - STRUCTURAL GEOLOGIC MAPPING
 SUBAPPLICATION TITLE - LANDFORM MAPPING
 TREE - 12 1 2 1 3

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
COLOR, TONAL PATTERNS			LOCAL		L-O L/S
DRAINAGE PATTERNS			LOCAL		L-O L/S
EROSION TYPE			LOCAL		L-O L/S
FAULTS, FRACTURES			LOCAL		L-O L/S
LINEAMENTS			LOCAL		L-O L/S
STRUCTURAL FEATURES			LOCAL		L-O L/S
TOPOGRAPHIC FEATURES			LOCAL	VARIES	DRUMLIN FIELDS L-O L/S.

DISCIPLINE TITLE - NON-RENEWABLE RESOURCES
 APPLICATION TITLE - STRUCTURAL GEOLOGIC MAPPING
 SUBAPPLICATION TITLE - LINEAMENT MAPPING
 TREE - 12. 1. 2. 1. 5
 PARAMETER

	REFER.	DES ACCUR.	BASED ACCUR	ACCUR. UNITS	LOW HORIZ RESOL	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL.	VERT RESOL UNITS	FRESHNESS
LINEAMENTS	G-14				100.		M				MON
STRUCTURAL FEATURES	G-14				100.		M				MON

DISCIPLINE TITLE - NON-RENEWABLE RESOURCES
 APPLICATION TITLE - STRUCTURAL GEOLOGIC MAPPING
 SUBAPPLICATION TITLE - LINEAMENT MAPPING
 TREE - 12 1 2.1 5

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
LINEAMENTS			LOCAL	MORNING/WINTER	OPTIONAL SNOW COVER
STRUCTURAL FEATURES			LOCAL	WINTER	ENHANCES IMAGE L-O L/S L-O L/S

DISCIPLINE TITLE - NON-RENEWABLE RESOURCES
 APPLICATION TITLE - POTENTIAL FIELD MAPPING
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 12. 1. 2. 2

PARAMETER	REFER.	DES. ACCUR.	BASED ACCUR	ACCUR UNITS	LOW HORIZ RESOL.	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL.	VERT RESOL UNITS	FRESHNESS
GRAVITY FIELD STRENGTH	L-1				100		KM				
MAGNETIC FIELD STRENGTH	L-1	.001		EMC/CC	100.		KM				

DISCIPLINE TITLE - NON-RENEWABLE RESOURCES
APPLICATION TITLE - POTENTIAL FIELD MAPPING
SUBAPPLICATION TITLE - NO TITLE
TREE - 12 1 2 2

PARAMETER	FREQUENCY OF UPDATE	DURATION	REAL COVERAGE	OBSERVATION TIME	COMMENTS
GRAVITY FIELD STRENGTH	YR				
MAGNETIC FIELD STRENGTH	YR				

DISCIPLINE TITLE - NON-RENEWABLE RESOURCES
 APPLICATION TITLE - ENGINEERING/CONSTRUCTION IMPACTS
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 12 2 1

PARAMETER	REFER	DES ACCUR.	BASD ACCUR	ACCUR UNITS	LOW HORIZ RESOL.	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL.	VERT RESOL UNITS	FRESHNESS
FROZEN GROUND EXTENT	L-1				20		M				1 MON
STRUCTURAL FEATURES	L-1				20		M				

DISCIPLINE TITLE - NON-RENEWABLE RESOURCES
APPLICATION TITLE - ENGINEERING/CONSTRUCTION IMPACTS
SUBAPPLICATION TITLE - NO TITLE
TREE - 12 2 1

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
FROZEN GROUND EXTENT	3 MON				
STRUCTURAL FEATURES	12 MON				

DISCIPLINE TITLE - NON-RENEWABLE RESOURCES
 APPLICATION TITLE - MINING ENGINEERING
 SUBAPPLICATION TITLE - MINE SAFETY ASSESSMENT
 TREE - 12 2 1.1 1

PARAMETER	REFER.	DES ACCUR.	BASED ACCUR	ACCUR UNITS	LOW HORIZ RESOL	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL	HIGH VERT RESOL	VERT RESOL UNITS	FRESHNESS
COLOR, TONAL PATTERNS	G-18				100		M				MON
DRAINAGE PATTERNS	G-18				100		M				MON
FAULTS, FRACTURES	G-18				100		M				MON
LINEAMENTS	G-18				100		M				MON
SOIL TYPE	G-18				100		M				MON
TOPOGRAPHIC FEATURES	G-18				100		M				MON
VEGETATIVE COVER TYPE	G-18				100		M				MON

DISCIPLINE TITLE - NON-RENEWABLE RESOURCES
 APPLICATION TITLE - MINING ENGINEERING
 SUBAPPLICATION TITLE - MINE SAFETY ASSESSMENT
 TREE - 12.2 1 1 1
 PARAMETER

FREQUENCY
 OF UPDATE

DURATION

AREAL
 COVERAGE

OBSERVATION
 TIME

COMMENTS

COLOR, TONAL PATTERNS
 DRAINAGE PATTERNS
 FAULTS, FRACTURES
 LINEAMENTS
 SOIL TYPE
 TOPOGRAPHIC FEATURES
 VEGETATIVE COVER TYPE

LOCAL
 LOCAL
 LOCAL
 LOCAL
 LOCAL
 LOCAL
 LOCAL

SEASONAL
 FALL, EARLY SPRING
 SPRING
 WINTER/SPRING
 EARLY SPRING
 WINTER
 FALL, EARLY SPRING

L-O L/S
 L-O L/S
 L-O L/S
 L-O L/S
 L-O L/S
 L-O L/S
 L-O L/S

DISCIPLINE TITLE - NON-RENEWABLE RESOURCES
 APPLICATION TITLE - CONSTRUCTION/PLANT SITING
 SUBAPPLICATION TITLE - DAM INVENTORY
 TREE - 12.2 1.2.2
 PARAMETER

	REFER	DES ACCUR.	BASD ACCUR.	ACCUR UNITS	LOW HORIZ RESOL	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL.	VERT RESOL UNITS	FRESHNESS
DRAINAGE PATTERNS	L-2	95		%	30.	100.	M				MON
LAND COVER TYPE	G-2	95.		%	30	100	M				MON
WATER LOCATION	G-2	95.		%	30	100.	M				MON

DISCIPLINE TITLE - NON-RENEWABLE RESOURCES
 APPLICATION TITLE - CONSTRUCTION/PLANT SITING
 SUBAPPLICATION TITLE - DAM INVENTORY
 TREE - 12 2 1 2 2

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
DRAINAGE PATTERNS	3-5 YR		REGIONAL	FALL-SPRING	L-O L/S
LAND COVER TYPE	3-5 YR		REGIONAL	FALL-SPRING	LOCATION OF DAMS, L-O L/S
WATER LOCATION	3-5 YR		REGIONAL	FALL-SPRING	L-O L/S

DISCIPLINE TITLE - NON-RENEWABLE RESOURCES
 APPLICATION TITLE - IMPACT ASSESSMENT
 SUBAPPLICATION TITLE - VOLCANIC ERUPTION RISK ASSESSMENT
 TREE - 12 2.1 3.3

PARAMETER	REFER	DES. ACCUR.	BASED ACCUR.	ACCUR. UNITS	LOW HORIZ RESOL.	HIGH HORIZ RESOL	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL	VERT RESOL UNITS	FRESHNESS
CRUSTAL UPLIFT, SUBSIDENCE	G-7				1		MICRO*				90 MIN
SEISMICITY	G-7				1		MICRO*				90 MIN

DISCIPLINE TITLE - NON-RENEWABLE RESOURCES
 APPLICATION TITLE - IMPACT ASSESSMENT
 SUBAPPLICATION TITLE - VOLCANIC ERUPTION RISK ASSESSMENT
 TREE - 12 2.1.3 3

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
CRUSTAL UPLIFT, SUBSIDENCE	6-10/DA		GLOBAL		GROUND BASED INSTRUMENTS S/C RELAYED DATA, L-O L/S
SEISMICITY	6-10/DA		GLOBAL		GROUND BASED INSTRUMENTS S/C RELAYED DATA, L-O L/S

Land Use Applications
Data Sheets

DISCIPLINE TITLE - LAND USE
 APPLICATION TITLE - LAND USE MAPPING
 SUBAPPLICATION TITLE - NO TITTE
 TREE - 13.1

PARAMETER	REFER.	DES. ACCUR.	BASED ACCUR	ACCUR. UNITS	LOW HORIZ RESOL.	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL	VERT RESOL UNITS	FRESHNESS
LAND COVER TYPE	U-7	90		%	10.0	15	M				DA/MON
LAND COVER TYPE	U-6	90		%	10.0	100.0	M				MON
ROCK TYPE	U-6	90.		%	10.0	100.0	M				MON
SNOW/ICE EXTENT	U-6	90.		%	10.0	100.0	M				MON
SOIL TYPE	U-6	90.		%	10.0	100.0	M				MON
VEGETATIVE COVER TYPE	U-6	90.		%	10	100	M				MON
WATER EXTENT	U-6	90.		%	10.0	100.0	M				MON
WETLAND EXTENT	U-6	90.		%	10.	100.0	M				MON

DISCIPLINE TITLE - LAND USE
 APPLICATION TITLE - LAND USE MAPPING
 SUBAPPLICATION TITLE - NO TITTE
 TREE - 13.1

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
LAND COVER TYPE	DA/MON/YR		GLOBAL	VARIABLE	
LAND COVER TYPE	5 YR		REG/LOCAL	ALL SEASONS	LEVEL 1/II
ROCK TYPE	5 YR		REG/LOCAL	ALL SEASONS	LEVEL II BARREN LAND
SNOW/ICE EXTENT	5 YR		REG/LOCAL	ALL SEASONS	LEVEL I, PERM FEATURE
SOIL TYPE	5 YR		REG/LOCAL	ALL SEASONS	LEVEL II BARREN LAND
VEGETATIVE COVER TYPE	5 YR		REG/LOCAL	ALL SEASONS	LEVEL II BARREN LAND
WATER EXTENT	5 YR		REG/LOCAL	ALL SEASONS	WATER LEVEL I
WETLAND EXTENT	5 YR		REG/LOCAL	ALL SEASONS	NONFORESTED LEVEL I

DISCIPLINE TITLE - LAND USE
 APPLICATION TITLE - WILDLIFE
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 13.1.1.1

HABITATE INFERENCE MAPPING

PARAMETER	REFER.	DES. ACCUR.	BASD ACCUR.	ACCUR. UNITS	LOW HORIZ RESOL	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL.	VERT RESOL UNITS	FRESHNESS
DRAINAGE PATTERNS	U-11										
LAND COVER TYPE	U-9	95.	85.	%	10.0	50.0	M				1-6 MON
LAND COVER TYPE	U-12				3.0	80.0	M				1-2 MON
PLANT DENSITY	U-9	95.	85.	%	10.0	50.0	M				1-6 MON
PLANT TYPE	U-9	95.	85.	%	10.0	50.0	M				1-6 MON
PLANT TYPE	U-12	95.	85.	%	10.0	100.0	M				1-2 MON
TERRAIN TYPE	U-11										
VEGETATIVE COVER TYPE	U-11										
VEGETATIVE COVER TYPE	U-11	95.	85.	%	10.0	50.0	M				1-6 MON
VEGETATIVE COVER TYPE	U-12	90.	65.	%	5.0	50.0	M				1-2 MON
WATER LOCATION	U-11										
WATER LOCATION	U-11	95.	85.	%	10.0	50.0	M				1-6 MON
WATER LOCATION	U-12	90.		%	3.0	80.0	M				1-2 MON
WETLAND EXTENT	U-11	95.	85.	%	10.0	50.0	M				1-6 MON

DISCIPLINE TITLE - LAND USE
 APPLICATION TITLE - WILDLIFE HABITATE INFERENCE MAPPING
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 13 1 1.1

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
DRAINAGE PATTERNS					
LAND COVER TYPE	1-5 YR		REG/LOC	ALL SEASONS	3 CLASSES
LAND COVER TYPE	3 YR		LOCAL	ALL SEASONS	6 CLASS-CULTURAL PATTERNS
PLANT DENSITY	1-5 YR		REG/LOC	ALL SEASONS	BUSH, AG, FOREST
PLANT TYPE	1-5 YR		REG/LOC	ALL SEASONS	BRUSH, AG, FOREST
PLANT TYPE	3 YR		LOCAL	SPRING/WINTER	FOREST
TERRAIN TYPE					
VEGETATIVE COVER TYPE	1-5 YR		REG/LOC	ALL SEASONS	BRUSH, AG, FOREST
VEGETATIVE COVER TYPE	3 YR		LOCAL	SPRING	AG, BRUSH
VEGETATIVE COVER TYPE					
WATER LOCATION	1-5 YR		REG/LOC	ALL SEASONS	
WATER LOCATION	3 YR		LOCAL	WINTER	
WATER LOCATION	1-5 YR		REG/LOC	ALL SEASONS	SH/SIZE, EH/LOCATION
WETLAND EXTENT					

DISCIPLINE TITLE - LAND USE
 APPLICATION TITLE - WILDLIFE HABITAT INFERENCE MAPPING
 SUBAPPLICATION TITLE - SALT MARSH MOSQUITO BREEDING AREA
 TREE - 13 1 1.2.1

PARAMETER	REFER.	DES ACCUR.	BASED ACCUR.	ACCUR. UNITS	LOW HORIZ RESOL.	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL.	VERT RESOL UNITS	FRESHNESS
LAND COVER TYPE	Z-3	75		%	0. 12	0 12	HACRES				
PLANT TYPE	U-9										
SALINITY	U-9										
VEGETATIVE COVER TYPE	U-9										
WATER LOCATION	Z-3		75	%	0 12	0 12	HACRES				
WETLAND EXTENT	Z-3		55	%	0. 12	0 12	HACRES				
WETLAND EXTENT	U-9										
WETLAND TYPE	Z-3		45.	%	0. 12	0 12	HACRES				

DISCIPLINE TITLE - LAND USE
 APPLICATION TITLE - WILDLIFE HABITAT INFERENCE MAPPING
 SUBAPPLICATION TITLE - SALT MARSH MOSQUITO BREEDING AREA
 TREE - 13.1.1.2.1
 PARAMETER FREQUENCY DURATION
 OF UPDATE

LAND COVER TYPE
 PLANT TYPE
 SALINITY
 VEGETATIVE COVER TYPE
 WATER LOCATION
 WETLAND EXTENT
 WETLAND EXTENT
 WETLAND TYPE

AREAL
COVERAGE

OBSERVATION
TIME

COMMENTS

LOCAL

SPRING

LOCAL

SPRING

LOCAL

SPRING

LOCAL

SPRING

MARSH, SWAMP, BOG, OPEN
WATER

DISCIPLINE TITLE - LAND USE
 APPLICATION TITLE - WILDLIFE HABITAT INFERENCE MAPPING
 SUBAPPLICATION TITLE - SCREWORM ERADICATION
 TREE - 13.1.1.2.2

PARAMETER	REFER.	DES ACCUR.	BASED ACCUR	ACCUR. UNITS	LOW HORIZ RESOL	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL	VERT RESOL UNITS	FRESHNESS
COLOR, TONAL PATTERNS	U-30	95.		%	50.0	100.0	M				MON
LAND COVER TYPE	U-30	95.		%	50.0	100.0	M				MON

DISCIPLINE TITLE - LAND USE
APPLICATION TITLE - WILDLIFE HABITAT INFERENCE MAPPING
SUBAPPLICATION TITLE - SCREWORM ERADICATION
TREE - 13.1.1.2 2

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
COLOR, TONAL PATTERNS			LOCAL		L/S L-0
LAND COVER TYPE			LOCAL		L/S L-0

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DISCIPLINE TITLE - LAND USE
APPLICATION TITLE - THEMATIC
SUBAPPLICATION TITLE - NO TITLE
TREE - 13.1.2

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PARAMETER	REFER.	DES. ACCUR.	BASED ACCUR.	ACCUR. UNITS	LOW HORIZ RESOL.	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL.	VERT RESOL UNITS	FRESHNESS
LAND COVER TYPE	U-19	90.	85.	%	80.0	100.0	M				MON
LAND COVER TYPE	U-2		85.	%							
VEGETATIVE COVER TYPE	U-2		85.	%							
WATER LOCATION	U-2		85.	%							
WETLAND EXTENT	U-2		85.	%							

DISCIPLINE TITLE - LAND USE
 APPLICATION TITLE - THEMATIC MAPPING
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 13. 1. 2

PARAMETER

FREQUENCY
 OF UPDATE

DURATION

AREAL
 COVERAGE

OBSERVATION
 TIME

COMMENTS

LAND COVER TYPE
 LAND COVER TYPE
 VEGETATIVE COVER TYPE
 WATER LOCATION
 WETLAND EXTENT

REC/LOCAL
 NATIONAL

L/S

CROP, FOREST, JUNGLE, SCRUB

DISCIPLINE TITLE - LAND USE
 APPLICATION TITLE - VEGETATIVE COVER MAPPING
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 13. 1. 2. 1

PARAMETER	REFER.	DES ACCUR.	BASED ACCUR.	ACCUR. UNITS	LOW HORIZ RESOL.	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL.	VERT RESOL UNITS	FRESHNESS
LAND COVER TYPE	Z-3		75.	%	0 12	0 12	HACRES				
LAND COVER TYPE	Z-11		70.	%	25 0	100 0	M				MON
SOIL TYPE	U-5		50.	%	80 0	100 0	M				
SOIL TYPE	U-5	90.		%	5 0	10 0	M				WK
VEGETATIVE COVER TYPE	V-5	90.		%	5 0	10 0	M				WK
VEGETATIVE COVER TYPE	U-5		50.	%	80 0	100 0	M				
VEGETATIVE COVER TYPE	Z-11		70.	%	25 0	100 0	M				MON
WATER LOCATION	Z-3		75.	%	0 12	0 12	HACRES				
WATER LOCATION	Z-11		90.	%	25 0	100 0	M				MON
WETLAND EXTENT	Z-3		55	%	0 12	0 12	HACRES				
WETLAND TYPE	Z-3		45.	%	0 12	0 12	HACRES				

DISCIPLINE TITLE - LAND USE
 APPLICATION TITLE - VEGETATIVE COVER MAPPING
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 13. 1. 2. 1

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
LAND COVER TYPE			LOCAL	SPRING	L/S
LAND COVER TYPE			LOCAL	LATE SUMMER	L/S, BARE SOIL
SOIL TYPE					L-0
SOIL TYPE			LOCAL	GROWING SEASON	L-0
VEGETATIVE COVER TYPE	MON			GROWING SEASON	L/S PRESENCE OF REGION
VEGETATIVE COVER TYPE					L/S
VEGETATIVE COVER TYPE			LOCAL	LATE SUMMER	
WATER LOCATION			LOCAL	SPRING	
WATER LOCATION			LOCAL	LATE SUMMER	L/S
WETLAND EXTENT			LOCAL	SPRING	
WETLAND TYPE			LOCAL	SPRING	MARSH, SWAMP, BOG

DISCIPLINE TITLE - LAND USE
 APPLICATION TITLE - ECOSYSTEM MAPPING
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 13.1 2.2

PARAMETER	REFER.	DES ACCUR.	BASED ACCUR	ACCUR. UNITS	LOW HORIZ RESOL	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL.	VERT RESOL UNITS	FRESHNESS
CHLOROPHYLL	Z-2		0.4	MG/M3							
DRAINAGE PATTERNS	Z-2	99	90.	%							
LAND COVER TYPE	Z-11		70.	%	25 0	100 0	M				MON
LAND COVER TYPE	Z-3		75.		0 12	0 12	HACRES				
LAND COVER TYPE	Z-2										
SALINITY	Z-2		2	PPT							
SEA SURFACE TEMP.	Z-2	0.1	0.5	%							
TURBIDITY	Z-2		1.7	FT ER*				5	.5	M	
VEGETATIVE COVER TYPE	Z-11		70.	%	25 0	100 0	M				MON
WATER LOCATION	Z-11		90.	%	25 0	100 0	M				MON
WATER LOCATION	Z-3		75.	%	12	12	HACRES				
WETLAND EXTENT	Z-3		55.	%	0 12	0 12	HACRES				
WETLAND TYPE	Z-3		45.	%	0 12	0 12	HACRES				

DISCIPLINE TITLE - LAND USE
 APPLICATION TITLE - ECOSYSTEM MAPPING
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 13.1 2.2

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
CHLOROPHYLL					DERIVED FROM COLOR PATTERNS
DRAINAGE PATTERNS					
LAND COVER TYPE			LOCAL	LATE SUMMER	L/S
LAND COVER TYPE			LOCAL	EARLY SPRING	
LAND COVER TYPE					
SALINITY					DERIVED FROM TEMP., CONDUCTIVITY, SALINITY
SEA SURFACE TEMP.					
TURBIDITY					
VEGETATIVE COVER TYPE			LOCAL	LATE SUMMER	L/S
WATER LOCATION			LOCAL	LATE SUMMER	L/S
WATER LOCATION			LOCAL	EARLY SPRING	
WETLAND EXTENT			LOCAL	EARLY SPRING	
WETLAND TYPE			LOCAL	EARLY SPRING	MARSH, SWAMP, BOG, OPEN WATER

DISCIPLINE TITLE - LAND USE
 APPLICATION TITLE - SURFACE WATER INVENTORY
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 13.1 2.3
 PARAMETER

REFER.	DES ACCUR.	BASED ACCUR.	ACCUR UNITS	LOW HORIZ RESOL.	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL.	VERT RESOL UNITS	FRESHNESS
U-1	95.		%	5.0	50.0	M				MON
U-1	95.		%	5.0	50.0	M				MON
U-1	95.		%	5.0	50.0	M				MON
U-1		95.	%	5.0	50.0	M				MON

DISCIPLINE TITLE - LAND USE
 APPLICATION TITLE - SURFACE WATER INVENTORY
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 13.1 2 3

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
DRAINAGE PATTERNS	1-5 YR			ALL SEASONS	
LAND COVER TYPE	1-5 YR		LOCAL	ALL SEASONS	L-0 L-0 BARELAND, STREETS, RESIDENTIAL, HIGHLY
VEGETATIVE COVER TYPE	1-5 YR			ALL SEASONS	L-0, GRASSES-PASTURE, AGRICULTURAL, FOREST
WATER LOCATION	1-5 YR			ALL SEASONS	L-0 STREAMS, PONDS, POOLS

DISCIPLINE TITLE - LAND USE
 APPLICATION TITLE - SURFACE WATER INVENTORY
 SUBAPPLICATION TITLE - LAND/WATER COVER TYPE
 TREE - 13. 1. 2. 3. 1

PARAMETER	REFER.	DES ACCUR.	BASED ACCUR.	ACCUR. UNITS	LOW HORIZ RESOL.	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL.	VERT RESOL UNITS	FRESHNESS
CHEMICAL POLLUTANT CONCEN	L-167				50.0	50.0	M				
CHEMICAL POLLUTANT EXTENT	L-167				50.0	50.0	M				
CHEMICAL POLLUTANT TYPE	L-167				50.	50.	M				
DISSOLVED NUTRIENTS	L-167				50.	50.	M				
DISSOLVED OXYGEN	L-167				50.	50.	M				
ICE THICKNESS	L-160										
ICE/SNOW EXTENT	L-170	1.		PPT	5.0	5.0	KM				
LAND COVER TYPE	U-20	90.	50.	%	80.0	100.0	M				MON
LAND SURFACE TEMP	L-167				5	5	M				
METAL CONCENT PROF	L-167				50.	50.	M				
PETROLEUM POLLUTANT EXTENT	L-167				50.0	50.0	M				
PETROLEUM POLLUTANT THICKNESS	L-167				50.0	50.0	M				
PETROLEUM POLLUTANT TYPE	L-167				50.0	50.0	M				
PH-BALANCE	L-167				50.	50.	M				
SLOPE, RELIEF	U-20		60.	%	80.0	100.					MON
SNOW DEPTH	L-160										
SOIL TYPE	U-20		70.	%	80.0	100.0	M				MON
SOLID WASTE EXTENT	L-167				50.	50.	M				
SURFACE WATER TEMP	L-167				50.	100.	M				
VEGETATIVE COVER TYPE	U-10				20.	80.	M				
VERT WATER TEMP PROF	L-160										
WATER ALBEDO	L-160										
WATER EQUIVALENT	L-160										
WATER EXTENT	U-10				20	80	M				
WETLAND EXTENT	U-10				20	80	M				

DISCIPLINE TITLE - LAND USE
 APPLICATION TITLE - SURFACE WATER INVENTORY
 SUBAPPLICATION TITLE - LAND/WATER COVER TYPE
 TREE - 13.1.2.3.1
 PARAMETER

CHEMICAL POLLUTANT CONCEN
 CHEMICAL POLLUTANT EXTENT
 CHEMICAL POLLUTANT TYPE
 DISSOLVED NUTRIENTS
 DISSOLVED OXYGEN
 ICE THICKNESS
 ICE/SNOW EXTENT
 LAND COVER TYPE
 LAND SURFACE TEMP
 METAL CONCENT PROF
 PETROLEUM POLLUTANT EXTENT
 PETROLEUM POLLUTANT THICKNESS
 PETROLEUM POLLUTANT TYPE
 PH-BALANCE
 SLOPE, RELIEF
 SNOW DEPTH
 SOIL TYPE
 SOLID WASTE EXTENT
 SURFACE WATER TEMP
 VEGETATIVE COVER TYPE
 VERT WATER TEMP PROF
 WATER ALBEDO
 WATER EQUIVALENT
 WATER EXTENT
 WETLAND EXTENT

FREQUENCY
 OF UPDATE

1 MON
 1 MON
 1 MON
 1-12 MON
 1 MON
 1-12 MON
 5-10 YR
 ONCE
 1 MON
 1 MON
 1 MON
 1 YR
 5-10 YR
 5-10 YR
 1-12 MON
 30 DA

DURATION

AREAL
 COVERAGE

LOCAL, REGIONAL

LOCAL, REGIONAL

LOCAL, REGIONAL

OBSERVATION
 TIME

ALL SEASONS

ALL SEASONS

ALL SEASONS

COMMENTS

L/S L-0
 HEAVY METALS

L/S. L-0
 L/S. L-0

VEG. PATTERNS

PARAMETER	REFER.	DES. ACCUR.	BASED ACCUR	ACCUR. UNITS	LOW HORIZ RESOL.	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL.	VERT RESOL UNITS	FRESHNESS
ABIOTIC STRESS	L-0				25 0	1000 0	M				
ASTRONOMICAL/STORM TIDES	L-16M				50 0	100 0	M				
CHEMICAL PESTICIDE CONCEN	L-167				50 0	100 0	M				
CHEMICAL PESTICIDE EXTENT	L-167				50 0	100 0	M				
CHEMICAL PESTICIDE TYPE	L-167				50 0	100 0	M				
COASTAL/ESTUARY CIR AMP	L-167				10 0	50 0	M				
COASTAL/ESTUARY CIR DIR	L-167				50 0	50 0	M				
CULTIVATION EXTENT	L-167				50 0	100 0	M				
CULTIVATION INTENSITY	L-167				50 0	100 0	M				
CULTIVATION TYPE	L-167				50 0	100 0	M				
DRAINAGE PATTERNS	L-167				20 0	20 0	M				
DROUGHT INDEX	L-167				20 0	50 0	M				
FLOOD PLAIN EXTENT	L-167				20 0	20 0	M				
FUEL MOISTURE	L-167				0 05	1 0	M				
ICE/SNOW MELT	L-167				20 0	50 0	M				
IRRIGATION EXTENT	L-167				20 0	20 0	M				
LAND COVER TYPE	L-167				20 0	50 0	M				
LAND COVER TYPE	L-167				10 0	50 0	M				
LAND COVER TYPE	L-167				20 0	20 0	M				
LAND SURFACE TEMP	L-167				1 0	1 0	M				
MINERAL LOCATION	L-167				20 0	50 0	M				
MINING/DRILLING LAND USE	L-160										
OCEAN SURFACE CURRENT AMP	L-16M				50 0	100 0	M				
OCEAN SURFACE CURRENT DIR	L-167				50 0	100 0	M				
OCEAN SURFACE CURRENT LOC	L-167				50 0	100 0	M				
OCEAN SURFACE WIND DIR	L-167				50 0	100 0	M				
OCEAN SURFACE WIND SPEED	L-167				50 0	100 0	M				
OCEAN WAVE AMP	L-167				50 0	100 0	M				
OCEAN WAVE HEIGHT	L-167				50 0	100 0	M				
OCEAN WAVE LENGTH DIR	L-167				50 0	100 0	M				
PLANT CONDITION	L-0				50 0	100 0	M				
PLANT DENSITY	L-0				50 0	100 0	M				
PLANT GROWTH RATE	L-0				50 0	100 0	M				
PLANT GROWTH STAGE	L-0				50 0	100 0	M				
PLANT GROWTH STAGE	L-167				100 0	100 0	M				
RADIOACTIVE NUCLIDE EXTENT	L-167				50 0	50 0	M				
RADIOACTIVE NUCLIDE STRENGTH	L-167				50 0	50 0	M				
RADIOACTIVE NUCLIDES TYPE	L-167				50 0	50 0	M				
ROCK TYPE	L-167				50 0	100 0	M				
ROCK TYPE	L-167				20 0	50 0	M				
ROCK TYPE	L-167				20 0	50 0	M				
SALINITY	L-167				20 0	20 0	M				
SATURATION OF VADOSE ZONE	L-167				50 0	50 0	M				
SEDIMENT TRANSPORT AMP	L-167				50 0	100 0	M				
SEDIMENT TRANSPORT DIR											

DISCIPLINE TITLE - LAND USE
 APPLICATION TITLE - SOCIAL/POLITICAL/ECONOMIC MAPPING
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 13.1.2.4

PARAMETER	REFER.	DES ACCUR.	BASED ACCUR.	ACCUR. UNITS	LOW HORIZ RESOL.	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL.	VERT RESOL UNITS	FRESHNESS
SLOPE, RELIEF	L-167				20.0	20.0	M				
SOIL CHEMISTRY	L-107				20.0	20.0	M				
SOIL GRANULARITY	L-167				20.0	20.0	M				
SOIL MOISTURE	L-167				50.0	140.0	M				
SOIL MOISTURE	L-167				10.	50.	M				
SOIL ORGANIC CONTENT	L-167				20.0	20.0	M				
SOIL PERMEABILITY	L-167				20.0	20.0	M				
SOIL PORORITY	L-167				20.0	20.0	M				
SOIL PROPERTIES	L-167				20.0	20.0	M				
SOIL/ROCK COMPOSITION	L-167				0.0	20.0	M				
SOLID WASTE EXTENT	L-107				20.0	100.0	M				
SOLID WASTE IDENTIFICATION	L-167				20.0	100.0	M				
SURFACE ROUGHNESS	L-167				20.0	50.	M				
SURFACE ROUGHNESS	L-167				20.0	50.0	M				
THERMAL PROPERTIES	L-167				1.0	1.0	KM				
TOPOGRAPHIC FEATURES	L-167				20.0	50.0	M				
TOPOGRAPHIC FEATURES	L-170										
TOPSOIL DEPTH	L-167				20.0	20.0	M				
UPWELLING EXTENT	L-167				50.0	50.0	M				
UPWELLING LOCATION	L-167				50.0	50.0	M				
VEGETATIVE COVER TYPE	L-167				50.0	100.0	M				
VEGETATIVE DAMAGE EXTENT	L-167				50.0	100.0	M				
VEGETATIVE DAMAGE TYPE	L-167				50.0	100.0	M				
VEGETATIVE EXTENT	L-0				50.0	100.0	M				
WATER DEPTH	L-167				50.0	50.0	M				
WATER TABLE DEPTH	L-167				50.0	50.0	M				
WETLAND EXTENT	L-167				50.0		M				

DISCIPLINE TITLE - LAND USE
 APPLICATION TITLE - SOCIAL/POLITICAL/ECONOMIC MAPPING
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 13.1.2.4

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
ABIOTIC STRESS	1-2/WK - 4/YR				WATER STRESS
ASTRONOMICAL/STORM TIDES	1/DA				
CHEMICAL PESTICIDE CONCEN	AS REQUIRED				
CHEMICAL PESTICIDE EXTENT	AS REQUIRED				
CHEMICAL PESTICIDE TYPE	AS REQUIRED				
COASTAL/ESTUARY CIR AMP	4/YR				
COASTAL/ESTUARY CIR DIR	4/YR				
CULTIVATION EXTENT	1-2/WK-4/YR				
CULTIVATION INTENSITY	1-2/WK-4/YR				
CULTIVATION TYPE	1-2/WK - 4/YR				
DRAINAGE PATTERNS	1 MON				
DROUGHT INDEX	1-12 MON				
FLOOD PLAIN EXTENT	1 MON				
FUEL MOISTURE	1-2/WK - 4/YR				
ICE/SNOW MELT	1-12 MON				
IRRIGATION EXTENT	1 YR				
LAND COVER TYPE	1-12 MON				FRACTION LAND/WATER
LAND COVER TYPE	1 MON				FRESH WATER EXTENT
LAND COVER TYPE	1/YR				FRACTION URBAN USE
LAND SURFACE TEMP	ONCE				
MINERAL LOCATION	1/YR				
MINING/DRILLING LAND USE					
OCEAN SURFACE CURRENT AMP	1/DA				
OCEAN SURFACE CURRENT DIR	1/DA				
OCEAN SURFACE CURRENT LOC					
OCEAN SURFACE WIND DIR	1/DA				
OCEAN SURFACE WIND SPEED	1/DA				
OCEAN WAVE AMP					
OCEAN WAVE HEIGHT	1/DA				
OCEAN WAVE LENGTH DIR	1/DA				
PLANT CONDITION	1-2/WK - 4/YR				
PLANT DENSITY	1-2/WK - 4/YR				
PLANT GROWTH RATE	1-2/WK - 4/YR				
PLANT GROWTH STAGE	1-2/WK - 4/YR				
PLANT GROWTH STAGE	AS REQUIRED				
RADIOACTIVE NUCLIDE EXTENT	1/MON TO ONCE				
RADIOACTIVE NUCLIDE STRENGTH	1/MON TO ONCE				
RADIOACTIVE NUCLIDES TYPE	1/MON TO ONCE				
ROCK TYPE	AS REQUIRED				
ROCK TYPE	1/YR				
ROCK TYPE	1/YR				
SALINITY	1/YR				SOIL
SATURATION OF VADOSE ZONE	1 YR				
SEDIMENT TRANSPORT AMP	4/YR				
SEDIMENT TRANSPORT DIR	4/YR				
SEDIMENT TRANSPORT LOC	4/YR				
SHOAL/SHORELINE MOVEMENT					

DISCIPLINE TITLE - LAND USE
 APPLICATION TITLE - SOCIAL/POLITICAL/ECONOMIC MAPPING
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 13.1.2.4

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
SLOPE, RELIEF	1 YR				
SOIL CHEMISTRY	1/YR				
SOIL GRANULARITY	1/YR				
SOIL MOISTURE	1 MON				
SOIL MOISTURE	1 MON				
SOIL ORGANIC CONTENT	1/YR				
SOIL PERMEABILITY	1/YR				
SOIL POROSITY	1/YR				
SOIL PROPERTIES	1/YR				MECHANIC PROPERTIES
SOIL/ROCK COMPOSITION	1/YR				
SOLID WASTE EXTENT	1/YR				
SOLID WASTE IDENTIFICATION	1/YR				
SURFACE ROUGHNESS	1/YR				
THERMAL PROPERTIES	ONCE				
TOPOGRAPHIC FEATURES	1/YR				COASTAL BATHYMETRY
TOPOGRAPHIC FEATURES	1/YR				
TOPSOIL DEPTH	1/YR				
UPWELLING EXTENT	4/YR				
UPWELLING LOCATION	4/YR				
VEGETATIVE COVER TYPE	1-2/WK - 4/YR				
VEGETATIVE DAMAGE EXTENT	1-2/WK-4/YR				
VEGETATIVE DAMAGE TYPE	1-2/WK-4/YR				
VEGETATIVE EXTENT	1-2/WK - 4/YR				
WATER DEPTH	1 MON				
WATER TABLE DEPTH	1 YR				
WETLAND EXTENT	1 MON				

DISCIPLINE TITLE - LAND USE
 APPLICATION TITLE - CARTOGRAPHY
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 13.1.3

PARAMETER	REFER.	DES ACCUR	BASED ACCUR.	ACCUR. UNITS	LOW HORIZ RESOL.	HIGH HORIZ RESOL	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL	VERT RESOL UNITS	FRESHNESS
COASTAL/ESTUARY CIR AMP	L-167				50	50.	M				
COASTAL/ESTUARY CIR DIR	L-167				50	50.	M				
COASTAL/ESTUARY CIR LOC	L-167				50.	50	M				
CULTIVATION INTENSITY	L-167				50.	100.	M				
CULTIVATION METHOD	L-167				50.	100.	M				
CULTIVATION TYPE	L-167				50.	100	M				
DRAINAGE PATTERNS	L-167				20	20	M				
DROUGHT INDEX	L-160										
FLOOD PLAIN EXTENT	L-167				50	100.	M				
FUEL MOISTURE	L-167				.05	1.	KM				
ICE/SNOW MELT	L-167				20	50.	M				
IRRIGATION EXTENT	L-167				20	20.	M				
LAND COVER TYPE	L-167				20.	50.	M				
LAND SURFACE TEMP	L-167				1.	1	KM				
MINERAL LOCATION	L-167				50.	50.	M				
MINING/DRILLING LAND USE	L-167				50.	50.	M				
ORGANIC MATERIALS	L-167				25	50.	M				
PLANT DISEASE EXTENT	L-167				50.	100.	M				
PLANT DISEASE TYPE	L-167				50.	100.	M				
PLANT GROWTH STAGE	L-170										
ROCK TYPE	L-167				20	20.	M				
ROCK TYPE	L-160				50.	50.	M				
SATURATION OF VADOSE ZONE	L-167				50.	50.	M				
SEDIMENT TRANSPORT AMP	L-167				50.	50.	M				
SEDIMENT TRANSPORT DIR	L-167				50	50.	M				
SHOAL/SHORELINE MOVEMENT	L-160										
SOIL PERMEABILITY	L-167				20.	20.	M				
SOIL/ROCK COMPOSITION	L-167				509	50.	M				
SOLID WASTE EXTENT	L-167				20.	100.	M				
SOLID WASTE IDENTIFICATION	L-167				20	100.	M				
SURFACE ROUGHNESS	L-167				20	20.	M				
TOPOGRAPHIC FEATURES	L-170										
UPWELLING EXTENT	L-167				50.	50.	M				
UPWELLING LOCATION	L-167				50.	50	M				
URBAN LAND USE	L-167				20	20	M				
VEGETATIVE DAMAGE EXTENT	L-167				50.	100.	M				
VEGETATIVE DAMAGE TYPE	L-167				50.	100	M				
VEGETATIVE EXTENT	L-167				50.	100	M				
VEGETATIVE TYPE	L-167				50	100.	M				
WATER DEPTH	L-167				50	50.	M				
WATER TABLE DEPTH	L-167				50	50	M				
WATER TYPE	L-167				20	50	M				
WETLAND EXTENT	L-167				50.	100.	M				

DISCIPLINE TITLE - LAND USE
 APPLICATION TITLE - CARTOGRAPHY
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 13.1.3

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
COASTAL/ESTUARY CIR AMP	3 MON				
COASTAL/ESTUARY CIR DIR	3 MON				
COASTAL/ESTUARY CIR LOC	3 MON				
CULTIVATION INTENSITY	3-12 MON				
CULTIVATION METHOD	3-12 MON				
CULTIVATION TYPE	3-12 MON				
DRAINAGE PATTERNS	1 YR				
DROUGHT INDEX					
FLOOD PLAIN EXTENT	3-12 MON				
FUEL MOISTURE	AS REQUIRED				
ICE/SNOW MELT	1-12 MON				
IRRIGATION EXTENT	1 YR				
LAND COVER TYPE	1 YR				FRACTION
LAND SURFACE TEMP	ONCE				
MINERAL LOCATION	3 MON-ONCE				
MINING/DRILLING LAND USE	3 MON-ONCE				
ORGANIC MATERIALS	5 YR-ONCE				
PLANT DISEASE EXTENT	3-12 MON				
PLANT DISEASE TYPE	3-12 MON				
PLANT GROWTH STAGE					
ROCK TYPE	1 YR				
ROCK TYPE	3 MON-ONCE				MINERAL IDENTIFICATION
SATURATION OF VADOSE ZONE	ONCE				
SEDIMENT TRANSPORT AMP	3 MON				
SEDIMENT TRANSPORT DIR	3 MON				
SHOAL/SHORELINE MOVEMENT					
SOIL PERMEABILITY	1 YR				
SOIL/ROCK COMPOSITION	3 MON-ONCE				
SOLID WASTE EXTENT	1 YR				
SOLID WASTE IDENTIFICATION	1 YR				
SURFACE ROUGHNESS	3 MON- ONCE				
TOPOGRAPHIC FEATURES					COASTAL BATHYMETRY
UPWELLING EXTENT	3 MON				
UPWELLING LOCATION	3 MON				
URBAN LAND USE	1 YR				
VEGETATIVE DAMAGE EXTENT	3-12 MON				
VEGETATIVE DAMAGE TYPE	3-12 MON				
VEGETATIVE EXTENT	3-12 MON				
VEGETATIVE TYPE	3-12 MON				
WATER DEPTH	1 YR				
WATER TABLE DEPTH	ONCE				
WATER TYPE	1 YR				FRESH WATER
WETLAND EXTENT	3-12 MON				

DISCIPLINE TITLE - LAND USE
 APPLICATION TITLE - LAND USE
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 13.2

IMPACT ASSESSMENT

PARAMETER	REFER.	DES ACCUR.	BASED ACCUR.	ACCUR. UNITS	LOW HORIZ RESOL.	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL.	VERT RESOL UNITS	FRESHNESS
DRAINAGE PATTERNS	U-8				5.	10.	M				MON
LAND COVER TYPE	U-8				40	80	M				MON
SLOPE, RELIEF	U-8				5.	15.	M				MON
SOIL TYPE	U-8				5.	10.	M				MON
TOPOGRAPHIC FEATURES	U-8				5.	15.	M				MON

DISCIPLINE TITLE - LAND USE
 APPLICATION TITLE - LAND USE
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 13.2

IMPACT ASSESSMENT

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
DRAINAGE PATTERNS	5-10 YR		REGIONAL	ALL SEASONS	4 BROAD CLASSES
LAND COVER TYPE	1-5 YR		REGIONAL	ALL SEASONS	
SLOPE, RELIEF	5-10 YR		REGIONAL	ALL SEASONS	
SOIL TYPE	5-10 YR		REGIONAL	ALL SEASONS	
TOPOGRAPHIC FEATURES	5-10 YR		REGIONAL	ALL SEASONS	
					L-0

DISCIPLINE TITLE - LAND USE
 APPLICATION TITLE - RESOURCE IMPACT PLANNING
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 13 1.5.1 2

PARAMETER	REFER.	DES ACCUR.	BASD ACCUR	ACCUR. UNITS	LOW HORIZ RESOL.	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL.	VERT RESOL UNITS	FRESHNESS
LAND COVER TYPE	U-9	90		%	1.	50.	M				1-6 MON
LAND COVER TYPE	U-9	95	60.	%	5.	30	M				MON
LAND COVER TYPE	U-14	90.	70.	%	10	50	M				3-6 MON
PLANT DENSITY	U-9	90		%	5	15	M				1-6 MON
VEGETATIVE COVER TYPE	U-9	90		%	10.	50	M				1-6 MON
VEGETATIVE COVER TYPE	U-13	95	75.	%	10.	30.	M				MON
WATER LOCATION	U-9	90		%	1.	30.	M				1-6 MON

DISCIPLINE TITLE - LAND USE
 APPLICATION TITLE - RESOURCE IMPACT PLANNING
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 13.1.5.1.2

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
LAND COVER TYPE	5-10 YR		LOCAL, REGIONAL	ALL SEASONS	4 CLASSES- INCLUDES CULTURE PATTERNS URBAN-30%, BARREN-60%
LAND COVER TYPE	2 YR		LOCAL	ALL SEASONS	VEGETATIVE PATTERNS
LAND COVER TYPE	SEASONAL-YR		LOCAL	ALL SEASONS	ACTIVE V S. INACTIVE AG.
PLANT DENSITY	5-10 YR		LOCAL, REGIONAL	ALL SEASONS	AG: BA-60%, RANGE: BA-80%, FOREST: BA-80%
VEGETATIVE COVER TYPE	5-10 YR		LOCAL, REGIONAL	ALL SEASONS	
VEGETATIVE COVER TYPE	2 YR		LOCAL	ALL SEASONS	
WATER LOCATION	5-10 YR		LOCAL, REGIONAL	ALL SEASONS	

DISCIPLINE TITLE - LAND USE
 APPLICATION TITLE - RESOURCE IMPACT PLANNING
 SUBAPPLICATION TITLE - RECREATIONAL SITE SELECTION
 TREE - 13.2.1

PARAMETER	REFER.	DES ACCUR.	BASD ACCUR	ACCUR. UNITS	LOW HORIZ RESOL.	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL.	VERT RESOL UNITS	FRESHNESS
ASPECT	U-9		85	%	30.	100.	M				
COLOR, TONAL PATTERNS	Z-5				50	100	M				
COLOR, TONAL PATTERNS	Z-5				1.	5.	M				
COLOR, TONAL PATTERNS	Z-5				5.	10	M				
DRAINAGE PATTERNS	Z-5	95.		%	30.	100.	M				
LAND COVER TYPE	Z-5	90.	70	%	30.	100.	M				MON
LAND COVER TYPE	U-9		85	%	30.	100.	M				MON
LEAF AREA INDEX	U-9		80	%	30	100.	M				
SLOPE, RELIEF	U-9		80	%	30.	100.	M				
SOIL TYPE	U-9		85	%	30	100	M				
TOPOGRAPHIC FEATURES	U-9		85	%	30.	100.	M				
VEGETATIVE PATTERNS	U-9		80.	%	30	100.	M				

DISCIPLINE TITLE - LAND USE
APPLICATION TITLE - RESOURCE IMPACT PLANNING
SUBAPPLICATION TITLE - RECREATIONAL SITE SELECTION
TREE - 13 2.1

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
ASPECT					DEG/TIME OF SUNLIGHT
COLOR, TONAL PATTERNS			REGIONAL	ALL SEASONS	L/S
COLOR, TONAL PATTERNS			LOCAL	ALL SEASONS	
COLOR, TONAL PATTERNS			LOCAL	ALL SEASONS	
DRAINAGE PATTERNS	YR		REGIONAL		
LAND COVER TYPE	YR		REGIONAL	ALL SEASONS	10-20 CLASSES AND SUBCLASSES
LAND COVER TYPE					CULTURAL PATTERN: ACCESSABILITY
LEAF AREA INDEX			LOCAL		
SLOPE, RELIEF					
SOIL TYPE					
TOPOGRAPHIC FEATURES					
VEGETATIVE PATTERNS			LOCAL		

DISCIPLINE TITLE - LAND USE
 APPLICATION TITLE - SURFACE MINING DELINIATION
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 13.2.1.1

PARAMETER	REFER	DES ACCUR	BASED ACCUR	ACCUR UNITS	LOW HORIZ RESOL.	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL.	VERT RESOL UNITS	FRESHNESS
SOIL TYPE	U-4	97	90.		5	10.	M				WK
VEGETATIVE COVER TYPE	U-4	97.	90	%	5	10.	M				WK
WATER LOCATION	U-4	97.	90.	%	5	10.	M				WK

DISCIPLINE TITLE - LAND USE
 APPLICATION TITLE - SURFACE MINING DELINIATION
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 13.2.1.1

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
SOIL TYPE	YR		LOCAL		DELINIATE BAKE SOIL AREAS ONLY
VEGETATIVE COVER TYPE	YR		LOCAL		DELINEATE VEG. AREAS ONLY
WATER LOCATION	YR		LOCAL		

DISCIPLINE TITLE - LAND USE
 APPLICATION TITLE - SURFACE MINING DELINIATION
 SUBAPPLICATION TITLE - STRIP MINING EFFECTS
 TREE - 13.2.1.1.1

PARAMETER	REFER.	DES ACCUR	BASED ACCUR	ACCUR UNITS	LOW HORIZ RESOL	HIGH HORIZ RESOL.	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL.	VERT RESOL UNITS	FRESHNESS
COLOR, TONAL PATTERNS	U-33	95	80.	%							3-6 MON
LAND COVER TYPE	U-33	90	65.	%	50.	100	M				3-6 MON
LAND COVER TYPE	U-24	90		%	50.	100	M				MON
PLANT DENSITY	U-33	90.	75.	%	50.	100	M				3-6 MON
PLANT DENSITY	U-24	90		%	50.	100.	M				MON
PLANT DENSITY	U-26	90.		%	50	100.	M				MON
SOIL TYPE	U-33	90	75		50	100.	M				3-6 MON
VEGETATIVE COVER TYPE	U-33	90	65.	%	50.	100	M				3-6 MON
VEGETATIVE COVER TYPE	U-24	90		%	50.	100.	M				MON
VEGETATIVE COVER TYPE	U-26	90.		%	50	100.	M				MON

DISCIPLINE TITLE - LAND USE
 APPLICATION TITLE - SURFACE MINING DELINIATION
 SUBAPPLICATION TITLE - STRIP MINING EFFECTS
 TREE - 13.2.1.1.1

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
COLOR, TONAL PATTERNS	1 YR		LOCAL	ALL SEASONS	L-O, L/S.
LAND COVER TYPE	1 YR		LOCAL	ALL SEASONS	L-O, L/S.
LAND COVER TYPE			LOCAL	ALL SEASONS	L-O, L/S.
PLANT DENSITY	1 YR		LOCAL	ALL SEASONS	L-O, L/S.
PLANT DENSITY			LOCAL	ALL SEASONS	L-O, L/S.
PLANT DENSITY			LOCAL	ALL SEASONS	L-O, L/S.
SOIL TYPE	1 YR		LOCAL	FALL, SPRING	BARE SOIL IDENTIFICATION L-O, L/S.
VEGETATIVE COVER TYPE	1 YR		LOCAL	ALL SEASONS	FOREST, BRUSH, TYPE L-O, L/S.
VEGETATIVE COVER TYPE			LOCAL	ALL SEASONS	FOREST, BRUSH TYPE L-O, L/S.
VEGETATIVE COVER TYPE			LOCAL	ALL SEASONS	L-O, L/S.

DISCIPLINE TITLE - LAND USE
 APPLICATION TITLE - SURFACE MINING DELINIATION
 SUBAPPLICATION TITLE - ACID MINE DRAINAGE
 TREE - 13. 2. 1 1. 2

PARAMETER	REFER.	DES ACCUR.	BASD ACCUR.	ACCUR UNITS	LOW HORIZ RESOL	HIGH HORIZ RESOL	HORIZ RES UNITS	LOW VERT RESOL.	HIGH VERT RESOL.	VERT RESOL UNITS	FRESHNESS
COLOR, TONAL PATTERNS	U-25	95.	75.	%	80.	100	M				3-6 MON
DRAINAGE PATTERNS	U-25	95.	75.	%	80.	100	M				3-6 MON
WATER LOCATION	U-25	90	65	%	80	100.	M				3-6 MON

DISCIPLINE TITLE - LAND USE
 APPLICATION TITLE - SURFACE MINING DELINIATION
 SUBAPPLICATION TITLE - ACID MINE DRAINAGE
 TREE - 13.2.1.1.2

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
COLOR, TONAL PATTERNS	YR		LOCAL	ALL SEASONS	L-0, L/S.
DRAINAGE PATTERNS	YR		LOCAL	ALL SEASONS	L-0, L/S.
WATER LOCATION	YR		LOCAL	ALL SEASONS	L-0, L/S.

DISCIPLINE TITLE - LAND USE
APPLICATION TITLE - GRASSLAND MANAGEMENT
SUBAPPLICATION TITLE - NO TITLE
TREE - 13.3 1.2
PARAMETER REFER. D

[illegible]

DISCIPLINE TITLE - LAND USE
 APPLICATION TITLE - GRASSLAND MANAGEMENT
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 13.3.1.2
 PARAMETER

FREQUENCY
 OF UPDATE

DURATION

AREAL
 COVERAGE

OBSERVATION
 TIME

COMMENTS

LAND ALBEDO
 LAND SURFACE TEMP
 PRECIP AMOUNT
 PRECIP EXTENT
 PRECIP RATE
 PRECIP TYPE
 PRECIP WATER PROF
 SURFACE AIR TEMP
 VERT TEMP PROF
 VERT WIND CONVECT DUCTS LOC
 VERT WIND CONVECT DUCTS SIZE
 VERT WIND PROF AMP
 VERT WIND PROF DIR

ONCE
 ONCE

OVER LAND

DISCIPLINE TITLE - LAND USE
APPLICATION TITLE - GRAZING LAND MANAGEMENT
SUBAPPLICATION TITLE - NO TITLE
TREE - 13.3.1.3
PARAMETER

FREQUENCY
OF UPDATE

DURATION

AREAL
COVERAGE

OBSERVATION
TIME

COMMENTS

LAND ALBEDO
LAND SURFACE TEMP
PRECIP AMOUNT
PRECIP EXTENT
PRECIP RATE
PRECIP TYPE
PRECIP WATER PROF
SURFACE AIR TEMP
VERT TEMP PROF
VERT WIND CONVECT DUCTS LOC
VERT WIND CONVECT DUCTS SIZE
VERT WIND PROF AMP
VERT WIND PROF DIR

ONCE
ONCE

OVER LAND

DISCIPLINE TITLE - LAND USE
APPLICATION TITLE - CROP YIELD MANAGEMENT
SUBAPPLICATION TITLE - NO TITLE
TREE - 13.3.1.4

[illegible]

DISCIPLINE TITLE - LAND USE
APPLICATION TITLE - CROP YIELD MANAGEMENT
SUBAPPLICATION TITLE - NO TITLE
TREE - 13.3.1.4

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
LAND ALBEDO	ONCE				
LAND SURFACE TEMP	ONCE				
PRECIP AMOUNT					
PRECIP EXTENT					
PRECIP RATE					
PRECIP TYPE					
PRECIP WATER PROF					
SURFACE AIR TEMP					
VERT TEMP PROF					
VERT WIND CONVECT DUCTS LOC					
VERT WIND CONVECT DUCTS SIZE					
VERT WIND PROF AMP					
VERT WIND PROF DIR					

DISCIPLINE TITLE - LAND USE
APPLICATION TITLE - ENVIRONMENTAL MANAGEMENT
SUBAPPLICATION TITLE - NO TITLE
TREE - 13.3.2

[illegible]

DISCIPLINE TITLE - LAND USE
APPLICATION TITLE - ENVIRONMENTAL MANAGEMENT
SUBAPPLICATION TITLE - NO TITLE
TREE - 13.3.2

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
COLOR, TONAL PATTERNS					
SUSPENDED SEDIMENT CONCEN					
TIDAL PROPERTIES					
TURBIDITY					
WATER ALBEDO					
WATER LOCATION					

DISCIPLINE TITLE - LAND USE
APPLICATION TITLE - WETLAND MANAGEMENT
SUBAPPLICATION TITLE - NO TITLE
TREE - 13.3 2.1

[illegible]

DISCIPLINE TITLE - LAND USE
 APPLICATION TITLE - WETLAND MANAGEMENT
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 13.3.2.1

PARAMETER	FREQUENCY OF UPDATE	DURATION	AREAL COVERAGE	OBSERVATION TIME	COMMENTS
CHEMICAL POLLUTANT CONCEN					
CHEMICAL POLLUTANT EXTENT					
CHEMICAL POLLUTANT TYPE					
DISSOLVED NUTRIENTS	1 YR				
LAND ALBEDO	ONCE				
LAND COVER TYPE	1 MON				VEGETATIVE TYPE
LAND SURFACE TEMP					
PESTICIDE POLLUTANT TYPE					
PETROLEUM POLLUTANT EXTENT					
PETROLEUM POLLUTANT TYPE					
PH-BALANCE	1 YR				
PLANT DENSITY					
PLANT GROWTH STAGE					
PRECIP AMOUNT					
PRECIP EXTENT					
PRECIP RATE					
PRECIP TYPE					
PRECIP WATER PROF					
RADIOACTIVE WASTE EXTENT					
RADIOACTIVE WASTE STRENGTH					
SALINITY	1 YR				
SEDIMENTATION RATE	10 YR				
SURFACE WATER TEMP	30 DA				
VEGETATIVE PATTERNS	1 MON				
VERT TEMP PROF					
WATER ALBEDO					

DISCIPLINE TITLE - LAND USE
APPLICATION TITLE - WETLAND MANAGEMENT
SUBAPPLICATION TITLE - NO TITLE
TREE - 13. 3. 2. 2
PARAMETER REFER.

[illegible]

DISCIPLINE TITLE - LAND USE
 APPLICATION TITLE - WETLAND MANAGEMENT
 SUBAPPLICATION TITLE - NO TITLE
 TREE - 13.3 2.2
 PARAMETER

FREQUENCY
 OF UPDATE

DURATION

AREAL
 COVERAGE

OBSERVATION
 TIME

COMMENTS

CHLOROPHYLL

DERIVED FROM COLOR
 PATTERNS

DRAINAGE PATTERNS
 DRAINAGE PATTERNS

LOCAL, REGIONAL

SALINE, BRACKISH, AIR
 FRESH L-S.
 L/S.

LAND COVER TYPE
 LAND COVER TYPE
 LAND COVER TYPE
 SALINITY

LOCAL

LATE SUMMER

LOCAL, REGIONAL

L-S
 DERIVED FROM TEMP.,
 CONDUCTIVITY, SALINITY
 L-S.

SALINITY
 SEA SURFACE TEMP
 TIDAL EFFECTS

LOCAL, REGIONAL

LOCAL, REGIONAL

L-S

TURBIDITY
 VEGETATIVE COVER TYPE
 VEGETATIVE TYPE
 WATER LOCATION
 WETLAND EXTENT

LOCAL

LOCAL, REGIONAL

LATE SUMMER
 WINTER, EARLY SPRING
 LATE SUMMER

L/S

L-S

L/S.

L-S.

LOCAL, REGIONAL

Bibliography

NUMBER	AUTHOR	TITLE
A-001	DILLMAN, R D	LANDSAT AUTOMATIC DATA PROCESSING SURVEY OF FOREST FEATURES IN SOUTH CAROLINE, 5TH CANADIAN SYMPOSIUM ON REMOTE SENSING, AUG, 1978
A-002	SADOWSKI, F , AND J. SARNO	FINAL REPORT ON FORESTRY CLASSIFICATION ACCURACY AS INFLUENCED BY MULTISPECTRAL SCANNER SPATIAL RESOLUTION, NASA: CONTRACT #NAS9-14123,, TASK 16
A-003	SINCLAIR, T. R , R. M. HOFFER, AND M. M. SCHREIBER	REFLECTANCE AND INTERNAL STRUCTURE OF LEAVES FROM SEVERAL CROPS DURING A GROWING SEASON, AGRONOMY JOURNAL
A-004	MORGAN, KEN, ET AL	AIRPHOTO ANALYSIS OF EROSION CONTROL PRACTICES, PHOTOGRAMMETRIC ENGINEERING AND REMOTE SENSING, VOL 46, NO. 5, MAY, 1980, PP 637-640
A-005	HOLBEN, BRENT, COMPTON TUCKER, AND CHENG-JENG FAN	SPECTRAL ASSESSMENT OF SOYBEAN LEAF AREA AND LEAF BIOMASS, PHOTOGRAMMETRIC ENGINEERING AND REMOTE SENSING, VOL 46, NO 5, MAY, 1980 PP 651-656
A-006	TUCKER, COMPTON, ET AL	RELATIONSHIP OF SPECTRAL DATA TO GRAIN YEILD VARIATION, PHOTOGRAMMETRIC ENGINEERING AND REMOTE SENSING, VOL 46, NO 5, MAY, 1980, PP 657-666
A-007	HANUSCHAK, GEORGE, ET AL	CROP AREA ESTIMATES FROM LANDSAT, TRANSITION FROM RESEARCH AND DEVELOPMENT TO TIMELY RESULTS, 1979 MACHINE PROCESSING OF REMOTE SENSING DATA SYMPOSIUM PROCEEDINGS, P 86-96

NUMBER	AUTHOR	TITLE
A-008	HIKSON, MARILYN M. MARVIN BAUER, AND BARBARA J DAVIS	SAMPLING FOR AREA ESTIMATION. A COMPARISON OF FULL FRAME SAMPLING WITH THE SAMPLE SEGMENT APPROACH, 1979 MACHINE PROCESSING OF REMOTE SENSING DATA SYMPOSIUM PROCEEDINGS, PP 86-96
A-009	HLAUKA, CHRISTINE A, ET AL	MULTITEMPORAL CLASSIFICATION OF WINTER WHEAT USING A GROWTH STATE MODEL, 1979 MACHINE PROCESSING OF REMOTE SENSING DATA SYMPOSIUM PROCEEDINGS, PP 105-115.
A-010	ROSENTHAL, WESLEY D, ET AL	PASTURE/WHEAT SURFACE TEMPERATURE DIFFERENCES: INDICATOR OF RELATIVE SOIL MOISTURE DIFFERENCES, 1979 MACHINE PROCESSING OF REMOTE SENSING DATA SYMPOSIUM PROCEEDINGS, PP 224-233.
A-011	SEUBERT, C.E , ET AL	MAPPING AND ESTIMATING AREAL EXTENT OF SEVERELY ERODED SOILS OF SELECTED SITES IN NORTHERN INDIANA, 1979 MACHINE PROCESSING OF REMOTE SENSING DATA SYMPOSIUM PROCEEDINGS, PP 234-238.
A-012	FUKUHARA, MICHIKAZO, ET AL	EXTRACTION OF SOIL INFORMATION FROM VEGETATED AREA, MACHINE PROCESSING OF REMOTE SENSING DATA SYMPOSIUM, 1979, PP 242-252
A-013	STONER, ERIC, ET AL	EXTENSION OF LABORATORY-MEASURED SOIL SPECTRA TO FIELD CONDITIONS, MACHINE PROCESSING OF REMOTE SENSING DATA, 1979, PP 253-263
A-014	PETERSON, JOHN, BARRET ROBINSON AND ROBERT BECK	PREDICTABILITY OF CHANGE IN SOIL REFLECTANCE ON WETTING, MACHINE PROCESSING OF REMOTE SENSING DATA, 1979, PP 264-274

NUMBER	AUTHOR	TITLE
A-015	FOX III, LAWRENCE, AND KENNETH E MAYER	USING GUIDED CLUSTERING TECHNIQUES TO ANALYZE LANDSAT DATA FOR MAPPING FOREST LAND COVER IN NORTHERN CALIFORNIA, MACHINE PROCESSING OF REMOTE SENSING DATA, 1979, PP 364-367
A-016	WILLIAMS, DARREL L , MARK L. STAUFFER, AND K. C. LEUNG	A FORESTERS LOOK AT THE APPLICATION OF IMAGE MANIPULATION TECHNIQUES TO MULTITEMPORAL LANDSAT DATA, MACHINE PROCESSING OF REMOTE SENSING DATA SYMPOSIUM, 1979, PP 368-376.
A-017	FLEMING, MICHAEL, AND ROGER HOFFER	MACHINE PROCESSING OF LANDSAT MSS DATA AND DMA TOPOGRAPHIC DATA FOR FOREST COVER TYPE MAPPING, MACHINE PROCESSING OF REMOTE SENSING DATA SYMPOSIUM, 1979, PP 377-390
A-018	WILLIAMS, D H , AND J. H. AGGARIAL	COMPUTER RECOGNITION OF CITRUS INFESTATIONS, MACHINE PROCESSING OF REMOTE SENSING DATA, 1979, PP 398-407.
A-019	KANEKO, TOYOHISA, LINDA K. MOORE, AND ROBERT T. SMART	AN INTERACTIVE COLOR DISPLAY SYSTEM FOR LABELLING CORPS, 1979 MACHINE PROCESSING OF REMOTE SENSING DATA SYMPOSIUM, LARS-IEEF, PP 408-419
A-020	KUMAR, R. , M NITERO, ET AL	CLASSIFICATION OF AREAS USING PIXEL-BY-PIXEL AND SAMPLE CLASSIFIERS, MACHINE PROCESSING OF REMOTE SENSING DATA SYMPOSIUM 1979, PP 420-428
A-021	CICONE, RICHARD C. , WILLIAM A. MALIDA, AND ERIC P. CRIST	INVESTIGATION OF TECHNIQUES FOR INVENTORYING FORESTED REGIONS V II FORESTRY INFORMATION SYSTEM REQUIREMENTS AND JOINT USE OF REMOTELY SENSED AND ANCILLARY DATA, NOV. , 77,

NUMBER	AUTHOR	TITLE
A-022	U N.	SECOND INTERNATIONAL TRAINING COURSE IN REMOTE SENSING APPLICATIONS FOR AGRICULTURE, FOOD AND AGRICULTURE ORGANIZATION ROME, 1977, U. N.
A-023	MALILA, WILLIAM A. , AND JAMES M GLEASON	FINAL REPORT. INVESTIGATIONS OF SPECTRAL SEPARABILITY OF SMALL GRAINS, EARLY SEASON WHEAT DETECTION AND MULTICROP INVENTORY PLANNING, NOV. 77, ERIM
A-024	PODWYSOCKI, MELVIN H.	AN ESTIMATE OF FIELD SIZE DISTRIBUTIONS FOR SELECTED SITES IN THE MAJOR GRAIN PRODUCING COUNTRIES, APRIL, 1976, GSFC
A-025	JOYCE, ARMOND T AND R H. GRIFFIN II	THE USE OF LANDSAT DIGITAL DATA AND COMPUTER-IMPLEMENTED TECHNIQUES FOR AN AGRICULTURAL APPLICATION, NASA REFERENCE PUB. 1016, JAN., 1978
A-026	BAUER, MARVIN, TINA K. CARY, ET AL	CROP IDENTIFICATION TECHNOLOGY ASSESSMENT FOR REMOTE SENSING (CITARS), LARS, 1975
A-027	SEEVERS, PAUL M. , JAMES V. DREW, AND MARVIN P. CARLSON	ESTIMATING VEGETATIVE BIOMASS FROM LANDSAT-1 IMAGERY FOR RANGE MANAGEMENT, PROCEEDINGS OF THE NASA EARTH RESOURCES SURVEY SYMPOSIUM HOUSTON, TEXAS, 1975, V I-A
A-028	REEVES, C A. , AND D. P. FAULKNER	DISCRIMINATING COASTAL RANGELAND PRODUCTION AND IMPROVEMENTS WITH COMPUTER-AIDED TECHNIQUES, PROCEEDINGS OF THE NASA EARTH RESOURCES SURVEY SYMPOSIUM, HOUSTON, TEXAS, 1975,

NUMBER	AUTHOR	TITLE
A-029	CARNEGIE, DAVID M., STEPHEN D. DEGLORIA, AND ROBERT N. COLWELL	USEFULNESS OF LANDSAT DATA FOR MONITORING PLANT DEVELOPMENT AND RANGE CONDITIONS IN CALIFORNIA'S ANNUAL GRASSLAND. PROCEEDINGS OF THE NASA EARTH RESOURCES SURVEY SYMPOSIUM HOUSTON*
A-030	HAAS, R. H. ,ET AL	MONITORING VEGETATION CONDITIONS FROM LANDSAT FOR USE IN RANGE MANAGEMENT. PROCEEDINGS OF THE NASA EARTH RESOURCES SURVEY SYMPOSIUM HOUSTON, TEXAS, 1975, V. I-A
A-031	WILLIAMS, DONALD L., AND JERRY C COINER	UTILIZATION OF LANDSAT IMAGERY FOR MAPPING VEGETATION ON THE MILLIONTH SCALE. PROCEEDINGS OF THE NASA EARTH RESOURCES SURVEY SYMPOSIUM, HOUSTON, TEXAS, 1975, V. I-A
A-032	WESTIN, F. C., AND C. J. FRAZEE	LANDSAT-1 DATA, ITS USE IN A SOIL SURVEY PROGRAM. PROCEEDINGS OF THE NASA EARTH RESOURCES SURVEY SYMPOSIUM, HOUSTON, TEXAS, 1975, V. I-A
A-033	PETERSON, J. B., F. E. GOODRICK, AND W. N. MELHORN	DELINEATION OF THE BOUNDARIES OF A BURIED PRE-GLACIAL VALLEY WITH LANDSAT-1 DATA. PROCEEDINGS OF THE NASA EARTH RESOURCES SURVEY SYMPOSIUM, HOUSTON, TEXAS, 1975, V. I-A
A-034	LEE, Y. JIM	ARE CLEAR-CUT AREAS ESTIMATED FROM LANDSAT IMAGERY RELIABLE. PROCEEDINGS OF THE NASA EARTH RESOURCES SURVEY SYMPOSIUM HOUSTON, TEXAS, 1975, V. I-A
A-035	BARKER, G. ROBINSON, AND TERRANCE P. FETHER	OPERATIONAL CONSIDERATIONS FOR THE APPLICATION OF REMOTELY SENSED FOREST DATA FROM LANDSAT OR OTHER AIRBORNE PLATFORMS. PROCEEDINGS OF THE NASA EARTH RESOURCES SURVEY SYMPOSIUM, HOUSTON, TEXAS, 1975, V. I-A

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A-036	KAN, E. P., AND R. D. DILLMAN	TIMBER TYPE SEPARABILITY IN SOUTHEASTERN UNITED STATES ON LANDSAT-1 MSS DATA, PROCEEDINGS OF THE NASA EARTH RESOURCES SURVEY SYMPOSIUM HOUSTON, TEXAS, 1975, V. I-A
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A-038	WILLIAMS, DARREL L.	COMPUTER ANALYSIS AND MAPPING OF GYPSY MOTH DEFOLIATION LEVELS IN PENNSYLVANIA USING LANDSAT-1 DIGITAL DATA, PROCEEDINGS OF THE NASA EARTH RESOURCES SURVEY SYMPOSIUM, HOUSTON, TEXAS,
A-039	CIBULA, WILLIAM G.	COMPUTER IMPLEMENTED CLASSIFICATION OF VEGETATION USING AIRCRAFT ACQUIRED MULTISPECTRAL SCANNER DATA, PROCEEDINGS OF THE NASA EARTH RESOURCES SURVEY SYMPOSIUM, HOUSTON, TEXAS, 1975, V. I-A
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NUMBER	AUTHOR	TITLE
A-043	PHELPS, RICHARD A	PRACTICAL APPLICATION OF REMOTE SENSING IN AGRICULTURE, PROCEEDINGS OF THE NASA EARTH RESOURCES SURVEY SYMPOSIUM HOUSTON, TEXAS, 1975, V. I-A
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A-048	GAUSMAN, ET AL	REFLECTANCE AND PREVISUAL DETECTION OF OZONE DAMAGE TO CANTALOUPE PLANTS, (CUCURBIT MOLD L.), REMOTE SENSING FOR VEGETATION DAMAGE ASSESSMENT, ASP, 1978
A-049	FOX, L	THE EFFECT OF CANOPY STRUCTURE ON THE MEASURED AND CALCULATED REFLECTANCE OF CONIFER FORESTS IN MICHIGAN, REMOTE SENSING FOR VEGETATION DAMAGE ASSESSMENT, ASP, 1978

NUMBER	AUTHOR	TITLE
A-050	TONELLI, A. M.	THE USE OF VEGETATION AS A TRANSDUCER FOR ENVIRONMENTAL POLLUTION, REMOTE SENSING FOR VEGETATION DAMAGE ASSESSMENT, ASP, 1978
A-051	GAUCHER, D. W , J E WALKER, AND J. R. SCHOLT	APPLICATIONS OF THE PHOTOMETRIC PROCESS IN MONITORING VEGETATION DAMAGE DUE TO EXTERNAL STRESSES, REMOTE SENSING FOR VEGETATION DAMAGE ASSESSMENT, ASP, 1978
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A-053	LEE, Y. J. , AND J. F. WEAR	MICRODENSITY TO IDENTIFY DOUGLAS-FIR TUSsock DEFOLIATION ON COLOR- INFRARED AERIAL PHOTOS, REMOTE SENSING FOR VEGETATION DAMAGE ASSESSMENT, ASP, 1978
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A-055	WILLIAMS, D L. , AND M L. STAUFFER	MONITORING GYPSY MOTH DEFOLIATION VIA LANDSAT IMAGE DIFFERENCING, REMOTE SENSING FOR VEGETATION DAMAGE ASSESSMENT, ASP, 1978
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NUMBER	AUTHOR	TITLE
A-057	BIRD, T B. J. MYERS, AND D. A. RATKOWSKY	THEORY OF VEGETATION DAMAGE. RECOGNITION OF PATTERNS OF DISEASE IN TALL FORESTS, REMOTE SENSING FOR VEGETATION DAMAGE ASSESSMENT, ASP, 1978
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A-061	MILLER, W. A.	REMOTE SENSING APPROACH TO IDENTIFYING DOUGLAS-FIR TUSSOCK MOTH (ORGYIA PSEUDOTSUGATO MCD) SITES, REMOTE SENSING FOR VEGETATION DAMAGE ASSESSMENT, ASP, 1978
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NUMBER	AUTHOR	TITLE
A-064	LEOPOLD, R. C., J. B. MATHIES, AND R. J. KOHUT	USE OF COLOR INFRARED AERIAL PHOTOGRAPHY FOR DOCUMENTING BASELINE VEGETATION STRESS IN ENVIRONMENTAL IMPACT ASSESSMENT, REMOTE SENSING FOR VEGETATION DAMAGE ASSESSMENT, ASP, 1978
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A-066	WATKINS, T.	ECONOMICS OF REMOTE SENSING FOR VEGETATION DAMAGE ASSESSMENT, REMOTE SENSING FOR VEGETATION DAMAGE ASSESSMENT, ASP, 1978
A-067	MURTHA, P. A., AND J. W. E. HARRIS	LANDSAT EVALUATION OF TUSsock MOTH DEFOLIATION, REMOTE SENSING FOR VEGETATION DAMAGE ASSESSMENT, ASP, 1978
A-068	GREGG, TIM, K. RUSSELL, AND E. KNUDTSON	DETECTION OF ARMILLARIA ROOT ROT DAMAGE WITH COLOR INFRARED PHOTOGRAPHY, REMOTE SENSING FOR VEGETATION DAMAGE ASSESSMENT, ASP, 1978
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NUMBER	AUTHOR	TITLE
A-071	SCHAEFER, E. L.	REMOTE SENSING FOR DETERMINATION OF SEEDLING SURVIVAL, REMOTE SENSING FOR VEGETATION DAMAGE ASSESSMENT, ASP, 1978
A-072	MYERS, B. J.	MAPPING OF BURNT AREA IN PRESCRIBED BURNING USING LARGE-SCALE CIR PHOTOS, REMOTE SENSING FOR VEGETATION DAMAGE ASSESSMENT, ASP, 1978
A-073	MCKIM, ET AL	INUNDATION DAMAGE TO VEGETATION AT SELECTED NEW ENGLAND FLOOD CONTROL RESERVOIRS, REMOTE SENSING FOR VEGETATION DAMAGE ASSESSMENT, ASP, 1978
A-074	WILLIAM, D , AND J. SHINES	OPERATIONAL REMOTE SENSING FOR SO2 VEGETATION DAMAGE, REMOTE SENSING FOR VEGETATION DAMAGE ASSESSMENT, ASP, 1978
A-075	SCHWARTZ, DAVID E.	VARIABILITY OF THE ACCURACY OF DELINEATING AGRICULTURAL FIELD BOUNDARIES FROM SATELLITE, PHD THESIS, MAY, 1976
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A-077		ST. REGIS FOREST INVENTORY PROJECT PLAN, NASA
A-078		COTTON, INC. APT PROJECT SUMMARY

NUMBER	AUTHOR	TITLE
A-079		IRRIGATED LANDS ASSESSMENT FOR WATER MANAGEMENT FINAL PROJECT PLAN AND PEER REVIEW, APRIL, 1980
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A-081		N Y STATE DEMONSTRATION PROJECT-ADIRONDACK PARK AGENCY CLEARCUT DELINEATION NASA/GSFC
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G-002	MARTIN, JAMES A. ET AL	SUMMARY OF AN INTEGRATED ERTS-1 PROJECT AND ITS RESULTS AT THE MISSOURI GEOLOGICAL SURVEY, THIRD EARTH RESOURCES TECHNOLOGY SATELLITE-1 SYMPOSIUM, DEC 14-24, 1979
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NUMBER	AUTHOR	TITLE
G-009	GOETZ, F. H, ET AL	GEOLOGIC APPLICATIONS OF ERTS IMAGES ON THE COLORADO PLATEAU, ARIZONATHIRD EARTH RESOURCES TECHNOLOGY SATELLITE-1 SYMPOSIUM, DEC 14-24, 1979
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NUMBER	AUTHOR	TITLE
G-016	ROWAN, LAWRENCE C, ET AL	MAPPING OF HYDROTHERMAL ALTERNATION ZONES AND REGIONAL ROCK TYPES USING COMPUTER ENHANCED ERTS MSS IMAGES, THIRD EARTH RESOURCES TECHNOLOGY SATELLITE-1 SYMPOSIUM, DEC 14-24, 1979
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NUMBER	AUTHOR	TITLE
G-023	ALBRIZZIO, CARLOS	GEOLOGICAL PHOTOINTERPRETATION OF THE PARAGUANA PENINSULA USING ERTS-A MULTISPECTRAL PHOTOGRAPHY, THIRD EARTH RESOURCES TECHNOLOGY SATELLITE-1 SYMPOSIUM, DEC 14-24, 1979
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G-099	MCKEE, EDWIN D.	INTRODUCTION TO A STUDY OF GLOBAL SAND SEAS, STUDY OF GLOBAL SAND SEAS, USGS, PUB #1052

NUMBER	AUTHOR	TITLE
G-100	BREED, CAROL S , AND TERESA GROW	MORPHOLOGY AND DISTRIBUTION OF DUNES IN SAND SEAS OBSERVED BY REMOTESENSING, STUDY OF GLOBAL SAND SEAS, USGS, PUB #1052
G-101	BREED, CAROL S , ET AL	REGIONAL STUDIES OF SAND SEAS USING LANDSAT IMAGERGY, STUDY OF GLOBAL SAND SEAS, USGS, PUB #1052
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G-201	NASA	NASA GEODYNAMICS PROGRAM. ANNUAL REPORT FOR 1979, MAY 1980, NASA TECHNICAL MEMORANDUM 81978
G-202	NATIONAL ACADEMY OF SCIENCES	APPLICATIONS OF A DEDICATED GRAVITATIONAL SATELLITE MISSION, 1979
G-203	NATIONAL ACADEMY OF SCIENCES	GEODESY TRENDS AND PROSPECTS, 1978
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G-205	NASA-GSFC	MAGSAT

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G-206	POTEMRA, T. A., F F MOBLEY AND L. D. ECKARD	THE GEOMAGNETIC FIELD AND ITS MEASUREMENT, JOHN HOPKINS APL TECHNICAL DIGEST, JULY-SEPT 1980, VOL 1, NO 3, PP 214-227
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G-208	LANGE, R. A	NEAR EARTH SATELLITE MAGNETIC FIELD MEASUREMENTS: A PRELUDE TO MAGSAT, EOS, VOL 60, NO. 38.
G-209	LANGE, R. S., ET AL	INITIAL GEOMAGNETIC FIELD MODEL FROM MAGSAT VECTOR DATA, GEOPHYSICAL RESEARCH LETTERS, VOL. 7, NO. 10, OCT 1980, PP 793-796
L-0		DAO IN HOUSE EXPERTISE
L-001	NASA/OSTA	HANDBOOK OF CURRENT SPACE APPLICATIONS, NASA/OSTA RESEARCH AND DEVELOPMENT PROGRAMS, JUNE 6, 1979
L-002	GENERAL ELECTRIC SPACE DIVISION	OSTA-DATA SYSTEM CONCEPT STUDY, FEB. 13, 1979
L-003	NASA CONFERENCE PUBLICATION REPORT 2030, AUGUST 1976	ACTIVE MICROWAVE USERS WORKSHOP REPORT

NUMBER	AUTHOR	TITLE
L-004	EWING, GIFFORD, ED	OCEANOGRAPHY FROM SPACE, WOODS HOLE OCEANOGRAPHIC INSTITUTE, APRIL 1965
L-005	FALLER, KENNETH, NASA #1012	REMOTE SENSING OF OCEANIC PARAMETERS DU. SKYLAB/ GAMEFISH EXPERIMENT NOV. 1977
L-006		SOIL MOISTURE WORKSHOP, NASA CONFERENCE PUBLICATION 2073, JANUARY 17-19, 1978
L-007	KREINS, EARL R , ED., NASA PUBLIC. 2076	4TH NASA AND NOAA WEATHER AND AND CLIMATE PROGRAM SCIENCE REVIEW JANUARY 24-25, 1979
L-008		REPORT OF THE FEDERAL MAPPING TASK FORCE ON MAPPING, CHARTING, GEODESY AND SURVEYING, EXECUTIVE OFFICE OF THE PRESIDENT-OFFICE OF MANAGEMENT AND BUDGET, JULY, 1973
L-009		ICE AND CLIMATE EXPERIMENT-REPORT OF THE SCIENCE AND APPLICATIONS WORKING GROUP, NASA-GSFC, OCTOBER 4, 1979
L-010	HENDERSON, FB, III AND . A SWANN, ED.	REPORT OF THE AD HOC GEOLOGICAL COMMITTEE ON REMOTE SENSING FROM SPACE WITH RECOMMENDATIONS FOR A GEOSAT PROGRAM, FLAGSTAFF, ARIZONA MAY 1976
L-011	NASA	PROPOSED NASA CONTRIBUTION TO THE CLIMATE PROGRAM, JULY 1977

NUMBER	AUTHOR	TITLE
L-012	GARP	THE PHYSICAL BASIS OF CLIMATE AND CLIMATE MODELLING, GARP NO. 16
L-013	LARRY S. CHRISTENSEN, WALTER FROST AND WILLIAM W. VAUGHAN, ED.	WORKSHOP ON THE NEED FOR THE LIGHTNING OBSERVATIONS FROM SPACE PRELIMINARY REPORT, NASA CONFERENCE PUBLICATION, NASA CP-2083, MARCH 1979
L-014	FRIJITA, T. THEODORE	ANTICYCLONIC TORNADOES WEATHERWISE, APRIL 1977, VOL. 30, NO 2 P 54-61
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L-016	YOSHIKAZE SASAKI	FINAL REPORT OF VARIATIONAL METHOD AIRING OPERATIONAL APPLICATION TO ANALYSIS AND SHORT RANGE PREDICTION OF LOCAL SEVERE WEATHER, JANUARY 1974
L-016		PROPOSED NASA CONTRIBUTIONS TO THE CLIMATE PROGRAM, JULY 1977
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L-018	CSC	STORMSAT GROUND SYSTEM CONCEPT STUDY, NOVEMBER 1976
L-019	BADGLEY, PETER	OCEANS FROM SPACE, GULF PUBLISHING CO., HOUSTON, TEXAS, 1976

NUMBER	AUTHOR	TITLE
L-020	GSFC	NOSS ALGORITHM DEVELOPMENT PLANS, MARCH 1980
L-021	GSFC	CANDIDATE NASA DATA SETS APPLICABLE TO THE CLIMATE PROGRAM. MAY 1978
L-022	MOGIL, H. MICHAEL, JOHN C. MONRO, AND HERBERT S. GROPER	NATIONAL WEATHER SERVICE FLASH FLOOD WARNING AND DISASTER PREPAREDNESS PROGRAMS, VOL. 59, NO. 6, JUNE 1978
L-023	DEPT OF COMMERCE	A FEDERAL PLAN FOR NATURAL DISASTER WARNING AND PREPAREDNESS, JUNE 1973
L-024	SCHLESINGER, ROBERT	SEVERE STORMS ENERGETICS AS REVEALED BY A TWO-DIMENSIONAL NUMERICAL MODEL, UNIVERSITY OF WISCONSIN
L-025	BONNER, WILLIAM D., RONALD M. REAP AND JAMES E. KLUPER	PRELIMINARY RESULTS ON SEVERE STORM PREDICTION BY SCREENING REGRESSION USING FORECAST PREDICTORS, TDL, NWS, NOAA
L-026	GARP	THE PHYSICAL BASIS OF CLIMATE AND CLIMATE MODELLING, GARP #9 16
L-027	CLOUGH, DONALD J. AND LAWRENCE W. MORLEY	EARTH OBSERVATION SYSTEMS FOR RESOURCE MANAGEMENT AND ENVIRONMENTAL CONTROL, NATO CONFERENCE SERIES, SERIES II: SYSTEMS SCIENCE, 1977

NUMBER	AUTHOR	TITLE
L-028	CSC	STORMSAT GROUND SYSTEM CONCEPT STUDY, NOVEMBER, 1976
L-029		STATUS OF SATELLITE OBSERVING POSSIBILITIES, FOR STUDIES OF CLIMATE PHYSICAL PROCESSES, REPORT TO ICSU AND TO JOC FOR GARP, MAY 1978
L-030	TODOROVIC, PAULE	AIR POLLUTION & TRAFFIC SAFETY, INSTITUTE OF PUBLIC HEALTH, BELGRAD YUGOSLAVIA FROM NEW CONCEPT IN AIR POLLUTION RESEARCH, P. 55-60
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L-032	MICROMAC, BILLY M., ED.	INTRODUCTION TO THE SCIENTIFIC STUDIES OF ATMOSPHERIC POLLUTION, LOCKHEED PALO ALTO RESEARCH LABORATORY, 1971
L-033	NATIONAL ACADEMY OF SCIENCE	ENERGY AND CLIMATE, STUDIES IN GEOPHYSICS 1977 PAGE 72-95
L-034		ICE AND CLIMATE EXPERIMENT, REPORT OF SCIENCE AND APPLICATION WORKING GROUP, DEC. 1979
L-035	BARRETT AND CURTIS	INTRODUCTION TO ENVIRONMENTAL REMOTE SENSING, U. OF BRISTOL, JOHN WILEY & SONS, INC, 1976

NUMBER	AUTHOR	TITLE
L-036	DRUMMOND, ROBERT R.	DIGEST OF NASA EARTH OBSERVATION SENSORS, GSFC, DECEMBER 1972
L-037	EWING, GIFFORD, ED.	OCEANOGRAPHY FROM SPACE, WOODS HOLE OCEANOGRAPHIC INSTITUTION, APRIL, 1965
L-038	FALLER, KENNETH H.	REMOTE SENSING OF OCEANIC PARAMETERS DURING THE SKYLAND/GAMEFISH EXPERIMENT, NASA #1012, NOVEMBER 1977
L-039	GERING, R.	APPLICATION OF REMOTE SENSING TO MANAGING THE EARTH'S ENVIRONMENT, UNIVERSITY OF CALIFORNIA, LOS ANGELES
L-040	GIERLOFF-EMDEN, ED.	ORBITAL REMOTE SENSING OF COASTAL & OFFSHORE ENVIRONMENTS, WALTER DE GRUYTER, BERLIN/NY, 1977
L-041	KNAPP, E.	SPATIAL DATA INTERGRATION: I. CONCEPTS, REQUIREMENTS, AND CURRENT CAPABILITIES, CSC FOR GSFC, OCTOBER 1979
L-042	SABINS, JR., FLOYD F.	REMOTE SENSING: PRINCIPLES AND INTERPRETATION W. H. FREEMAN, S. FRAN, 1978
L-043	RICARSON, ED	INTRODUCTION TO REMOTE SENSING OF THE ENVIRONMENT, KENDALL/HUNT PUB. CO , IOWA, 1978

NUMBER	AUTHOR	TITLE
L-044	SCHERZ, ED	ASSESSMENT OF AQUATIC ENVIRONMENT BY REMOTE SENSING. INSTITUTE FOR ENVIRONMENTAL STUDIES, UNIVERSITY OF WISCONSIN-MADISON, 1977
L-045	VAN GENDEREN & COLLINS, ED	REMOTE SENSING DATA PROCESSING. REMOTE SENSING SOCIETY-U OF SHEFFILD 1975
L-046	VERIROGLU, T. NEJAT, ED	REMOTE SENSING: ENERGY RELATED STUDIES JOHN WILEY & SONS, INC., 1957
L-047	VERIROGLU, T. NEJAT, ED	REMOTE SENSING APPLIED TO ENERGY RELATED PROBLEMS (SYMPOSIUM COURSE PROCEEDINGS), U OF MIAMI, FLORIDA, 1974
L-048		ADVISORY GROUP FOR AEROSPACE RESEARCH & DEVELOPMENT
L-049	AIAA/AMS/AGU/IEEE/MTS/SEG	SATELLITE APPLICATIONS TO MARINE TECHNOLOGY A COLLECTION OF TECHNICAL PAPERS, NOVEMBER 1977
L-050	POLLACK, ANDREW M., KEITH D. STOLENBACH	CRISIS SCIENCES: INVESTIGATIONS IN RESPONSE TO THE ARGO MERCHANT OIL SPILL, MIT REPORT NO. MITSG 78-B, JUNE 1978
L-051	NATIONAL ACADEMY OF SCIENCE	CARBON DIOXIDE AND CLIMATE: A SCIENTIFIC ASSESSMENT, CLIMATE RESEARCH BOARD, NATIONAL RESEARCH COUNCIL, 1979

NUMBER	AUTHOR	TITLE
L-052	AMS	CONFERENCE ON URBAN ENVIRONMENT AND SECOND CONFERENCE ON BIOMETEOROLOGY, PHILADELPHIA, PA, 1972
L-053	PIONKE, H. B., AND B J. BLANCHARD	THE REMOTE SENSING OF SESPENDED SEDIMENT, FROM WATER, AIR AND SOIL POLLUTION VOL 4, NO.1, MARCH 1975
L-054	NATIONAL ACADEMY OF SCIENCES	U S CONTRIBUTION TO THE POLAR EXPERIMENT (POLEX), 1974
L-054		SMART REMOTE SENSOR NEEDS FOR U.S. COAST GUARD OCEAN ENVIRONMENT MISSIONS, AIAA/NASA CONFERENCE ON "SMART" SENSORS, HAMPTON, 1978
L-055		INTERAGENCY COMMITTEE FOR SEARCH AND RESCUE AD HOC WORKING GROUP REPORT ON SATELLITES FOR DISASTERS ALERTING AND LOCATING, FINAL REPORT, OCTOBER 1976
L-056		GUIDELINES FOR THE AIR-SEA INTERACTION SPECIAL STUDY: AN ELEMENT OF THE NASA CLIMATE RESEARCH PROGRAM, JPL/SIO WORKSHOP REPORT FEB. 15, 1980
L-057	GOULET, J. R., JR., AND E. D. HAYNES, ED	OCEAN VARIABILITY: EFFECTS ON U.S. MARINE FISHERY RESOURCES-1975 NOAA TECHNICAL REPORT NMFS CIRCULAR 416 DECEMBER 1978
L-058	HAYES, RICHARD M.	INTEGRATED REMOTE SENSING SYSTEMS, A REPORT TO THE ADMINISTRATOR NASA FROM INTERAGENCY TASK FORCE, JULY 15, 1979

NUMBER	AUTHOR	TITLE
L-060	NATIONAL ACADEMY OF SCIENCE	UNDERSTANDING CLIMATIC CHANGE, 1975
L-061	ESA	SPACE OCEANOGRAPHY, NAVIGATION & GEODYNAMICS- PROCEEDING OF EUROPEAN WORKSHOP, SCHLOSS ELMARR, GERMANY, JANUARY 1978
L-062	NATIONAL ACADEMY OR SCIENCE	COMMISSION ON NATURAL RESOURCES, MICROWAVE REMOTE SENSING FROM SPACE FOR EARTH RESOURCE SURVEYS, 1977
L-063	ANDERSON, CROWDER, GATTO, ET AL.	AN ERTS VIEW OF ALASKA, COLD REGIONS RESEARCH AND ENGINEERING LABORATORY, ARMY CORPD OF ENGINEERS, HANOVER, N. H., 1973.
L-064	AIAA/IEEE	SYMPOSIUM PROCEEDINGS: MANAGEMENT AND UTILIZATION OF REMOTE SENSING DATA. AM. SOCIETY OF PHOTOGRAMMETRY, AMGEOL, INSTITUTE ABT., SIOUX FALLS S.D. 1973
L-065	FLETCHER, JAMES C.	ERTS-1 TOWARD GLOBAL MONITORING, MERCANTI, ED., ERTS-1 A NEW WAY TO SEE, ASTRONAUTICS AND AERONAUTICS, SEPT., 1973.
L-066	FLINT, RICHARD FOSTER	GLACIAL AND QUANTERNARY GEOLOGY, JOHN WILEY AND SONS, INC., 1971.
L-067	FOLK, ROBERT L.	PETROLOGY OF SEDIMENTARY ROCKS, HEMPHILL PUB., 1974.

NUMBER	AUTHOR	TITLE
L-068	GROSS, M GRANT	OCEANOGRAPHY, PRENTICE-HALL, INC., N.J., 1977
L-069	KOBER, AWALD, AND PROCTOR-GREGG	MINERAL RESOURCES LOCATED BY REMOTE SENSING, MARTIN-MARIETTA CORP, DENVER, CO., 1973
L-070	LOHMAN, GUY, AND RENFROW, TOM	A PROPOSED CONCEPT FOR A CRUSTAL DYNAMICS INFORMATION MANAGEMENT NETWORK, (DRAFT) JPL, PASADENA, CA, FOR NASA, 1979.
L-071	PRESS, FRAND & SIEVER, RAYMOND	EARTH, W.H. FREEMAN AND SONS, SAN FRANCISCO, CA., 1974
L-072	MCKLIM, MARLAR, AND ANDERSON	THE USER OF ERTS-1 IMAGERY IN THE NATIONAL PROGRAM FOR THE INSPECTION OF DAMS, ARMY CORPS OF ENGINEERS, COLD, REGIONS RESEARCH ENGINEERING LAB., 1972.
L-073	SALOMONSON, V V., AND RANGO, A.	ERTS-1 APPLICATIONS IN HYDROLOGY AND WATER RESOURCES, 1973
L-074	SCHMER, DR. FRED A., ET AL	INVESTIGATION OF REMOTE SENSING TECHNIQUES AS INPUTS TO OPERATION AL RESOURCE MANAGEMENT., REMOTE SENSING INSTITUTE OF SOUTH DAKOTA STATE UNIVERSITY, BROOKINGS, SD., 57007, FOR NASA*
L-075	SELLEY, RICHARD C.	ANCIENT SEDIMENTARY ENVIRONMENTS, CORNELL UNIVERSITY PRESS, ITHICA N.Y., 1970.

NUMBER	AUTHOR	TITLE
L-076	STEVENSON, MERRITT R., MILLER, FOREST R. AND KIRKHAM, ROBERT G.	COMAPRISON OF NOAA 3-4 VHRR IMAGERY & LANDSAT MULTI-SPECTRAL SCANNERIMAGES WITH MARINE RESOURCE MEASUREMENTS, FINAL INTER-AMERICAN TROPICAL TUNA COMMISSION, DECEMBER, 1976
L-077	BAKER, JR., D. JAMES, AND WELLER, GUNTER, ED	POLAR ATMOSPHERE-ICE-OCEAN PROCESSES: A REVIEW OF POLAR CLIMATE RESEARCH PROBLEMS. BASED ON GARP PUBLICATION NO. 19, WMO GENEVA, 1978
L-078	FINCH, WILLIAM, COMPILER	EARTH RESOURCES TECHNOLOGY SATELLITE-1 SYMPOSIUM PROCEEDINGS OF 1972 GSFC, 1973
L-079	FREDEN, MERCANTI, AND WITTEN, ED	SYMPOSIUM ON SIGNIFICANT RESULTS OBTAINED FROM EARTH RESOURCES TECHNOLOGY SATELLITE-1, VOL. 2, GSFC, 1973
L-080	TENDAM, I. M. & MORRISON, D. B., ED	MACHINE PROCESSING OF REMOTELY SENSED DATA. LABORATORY FOR APPLICAT. OF REMOTE SENSING, PURDUE U., WEST LAFAYETTE, IND 47907. FIFTH ANNUAL SYMPOSIUM, 1979
L-081	ANDERSON, ARTHUR G., CHAIRMAN	MICROWAVE REMOTE SENSING FROM SPACE FOR EARTH RESOURCE SURVEYS COMMITTEE ON REMOTE SENSING PROGRAMS, ET AL. NATIONAL ACADEMY OF SCIENCES, WASHINGTON, D C. 1977
L-082	DOWNEY, PETER, AND DAVIS, BRUCE	SPACE: A RESOURCE FOR EARTH. AIAA TECHNICAL COMMITTEE ON SPACE SYSTEMS NEW YORK, N. Y., 1977

NUMBER	AUTHOR	TITLE
L-083	UNTERSTEINER, N. , CHAIRMAN	REPORT OF THE INFORMAL MEETING OF EXPERTS ON THE ROLE OF SEA ICE IN THE CLIMATE SYSTEM COMMISSION FOR ATMOSPHERIC SCIENCES, WMO, GENEVA, 1977
L-084		A LEGISLATOR'S GUIDE TO LANDSAT, NAT'L CONFERENCE ON STATE LEGISLATOR'S REMOTE SENSING PROJECT, DENVER, COLORADO
L-085		BRIEF FOR THE SUB-GROUP ON PARAMETERS TO BE REMOTELY SENSED FOR ICE RECONNAISSANCE, REMOTE SENSING COMMITTEES OF ARTIC PETROLEUM AND EAST COAST PETROLEUM OPERATORS ASSOCIATIONS, 1978
L-086		ECOLOGICAL SURVEYS FROM SPACE, NASA SCIENTIFIC AND TECHNOLOGY INFORMATION DIVISION, WASHINGTON, D. C. , 1970
L-087		HIGH ALTITUDE PERSPECTIVE AMES RESEARCH CENTER, NASA, WASHINGTON D. C. , 1978
L-088		ON-BOARD INSTRUMENT PROCESSING FOR UPPER ATMOSPHERIC RESEARCH SATELLITE, OAO CORPORATION FOR GSFC/NASA, 1978
L-089		PRELIMINARY SENSOR REQUIREMENTS FOR THE NEXT GENERATION OF OPERATION ENVIRONMENTAL SATELLITES, SYSTEM 1985 LEVEL 2 REPORT, SYSTEMS PLANNING GROUP, OFFICE OF SYSTEM INTERGRATION.

NUMBER	AUTHOR	TITLE
L-090		REPORT OF THE CLIMATE DATA MANAGEMENT WORKSHOP, SPONSORED BY: NOAA ENVIRONMENTAL DATA AND INFORMATION SERVICE AND THE NATIONAL CLIMATE PROGRAM OFFICE, HARPERS FERRY, WV, 1979
L-091	NASA, OSTA	SPACE AND TERRESTRIAL APPLICATIONS PROGRAM (DRAFT) FY79
L-092	ADAMS, MICHAEL S.	ASSESSMENT OF AQUATIC ENVIRONMENT BY REMOTE SENSING, INSTITUTE FOR ENVIROMENTAL STUDIES, UNIV. WISCONSIN-MADISON, IES REPORT B4, SEPTEMBER 1977
L-093		THE T. E. R. R. A. FACILITIES FOR THE COLLECTION OF EARTH RESOURCES DATA, TELESPIAZIO, ROME, 1975
L-094	DAO	USER REQUIREMENTS FOR A NASA CLIMATE DATA BASE MANAGEMENT SYSTEM DAO CORPORATION FOR NASA/ GSFC, 1979
L-095	FINK, DANIEL	MONITORING EARTH'S RESOURCES FROM SPACE, TEHCNOLOGY REVIEW, VOL. 75, NO 7, JUNE 1973, MIT
L-096	MATTHEWS, CHARLES M.	POTENTIAL OF SPACE APPLICATIONS TO THE INVENTORING AND EVALUATION OF GEOTHERMAL RESOURCES, STATEMENT BEFORE U. S. SENATE, 1974
L-097	BARNETT, R	PRACTICAL APPLICATIONS OF LANDSAT DATA FOR EARTH RESOURCES SURVEYS WATER RESOURCES, NASA MSFC, SEPTEMBER 1976

NUMBER	AUTHOR	TITLE
L-098	BLUME, HANS-JUERGEN, C. , KENDALL, BRUCE M. , AND FEDORS, JOHN C	SEA-SURFACE TEMPERATURE AND SALINITY MAPPING FROM REMOTE MICROWAVE RADIOMETRIC MEASUREMENTS OF BRIGHTNESS TEMPERATURE. NASA TECHNICAL PAPER 1077, DECEMBER 1977
L-099	CATOE, CLARENCE E. , AND MCLEAN, JAMES T.	A MULTISPECTRAL LOOK AT OIL POLLUTION DETECTION, MONITORING, AND LAW ENFORCEMENT
L-100	CLAYTON, KEITH M.	DESIGN AND EVALUATION OF A COMPUTER BASED SYSTEM TO MONITOR AND GENERALIZE, BY AREAS, DATA FROM ERTS PRECISION IMAGERY TAPES, UNIV OF EAST ANGLICA, MMC 035, TYPE III REPORT FOR 23 JANUARY .
L-101	ECKERMAN, J. MENEGHINI, R. AND ATLAS, D	AVERAGE RAINFALL DETERMINATION FROM A SCANNING BEAM SPACEBORNE METEOROLOGICAL RADAR, NASA TECH. MEMORANDUM 79664, GSFC, NOVEMBER 1978
L-109	STAEIN, D. H , AND ROSENKRANZ, P. W	HIGH RESOLUTION PASSIVE MICROWAVE SATELLITES, APPLICATIONS REVIEW PANEL REPORT, MIT, 1978.
L-110	EPSTEIN, EDWARD S.	REQUIREMENTS FOR OCEAN DATA, NOAA LETTER AND REPORT, 7 JANUARY 1977
L-111	JOINER, THOMAS J.	REMOTE SENSING OF STRIPPABLE COAL RESERVES AND MINE INVENTORY IN PART OF THE WARRIOR COAL FIELD IN ALABAMA, GEOLOGICAL SURVEY OF ALABAMA NASA CR-150781, FOR MSFC, JULY 1978
L-112	KNODRAT'YER, K YA , RABINOVICH, YU. I. , AND SHUL'GINA, YEM	DETERMINING THE MOISTURE CONTENT AND RESERVES OF PRODUCTIVE MOISTURE IN THE SOIL FROM MICROWAVE RADIATION

NUMBER	AUTHOR	TITLE
L-113	LEESE, JOHN A. , BOOTH, ARTHUR L. , AND GODSHALL, FREDERICK A.	ARCHIVING & CLIMATOLOGICAL APPLICATIONS OF METEOROLOGICAL SATELLITE DATA, ESSA TECH REPORT NSEC53, JULY 1970
L-114	MERIFIELD, P. M , ET AL.	FAULT TECHTONICS AND EARTHQUAKE HAZARDS IN PARTS OF SOUTHERN CALIFORNIA, FINAL REPORT, SKYLAB EREP 463 RESULTS, TECHNICAL REPORT 76-1, FOR NASA LBJSC, JANUARY 1976
L-115	MEYERS, VICTOR I. , HEILMAN, JAMES L. , AND MOORE, DONALD G	SOIL MOISTURE WORKSHOP VOLUME I, PRELIMINARY DRAFT, REMOTE SENSING INSTITUTE, SO. DAKOTA STATE U. , MARCH 1978
L-116	NAGLER, ROBERT G. , SHERRY, EDWIN J.	GLOBAL SERVICES SATELLITE CIRCA 1995 VOLUME II ENVIRONMENTAL AND RESOURCE MANAGEMENT MEASUREMENT SERVICES, JPL, 30 SEPTEMBER 1978
L-117	JOHNSON, J. M. ,	UTILIZATION OF LANDSAT DATA FOR WATER QUALITY SURVEYS IN THE CHOPTANK RIVER, NASA EARTH RESOURCES SYMPOSIUM, HOUSTON, JUNE 1975, PP 2325-2350.
L-119	RAGAN, ROBERT M. , ET AL.	COMPARISON BETWEEN CONVENTIONAL AND LANDSAT-BASED HYDROLOGIC MODELING THE FOUR MILE RUN CASE STUDY, U. OF MD. FOR NASA, NSG 5017, OCTOBER 1976
L-120	SCHMER, FRED A. , ISAKSON, ROBERT E , & EIDENSHINK, JEFF C.	INVESTIGATION OF REMOTE SENSING TECHNIQUES AS INPUTS TO OPERATIONAL RESOURCE MANAGEMENT, REMOTE SENSING INSTITUTE, SOUTH DAKOTA STATE U. SDSU RSI-77-12, JUNE 1977

NUMBER	AUTHOR	TITLE
L-121	STEIN, ERIK K., HAMMILL, HARRY B.	IMAGE PROCESSING SYSTEM PERFORMANCE PREDICTION AND PRODUCT QUALITY EVALUATION, CALSPAN CORPORATION, ZE-5185-M2, FOR GSFC, APRIL 1976
L-122	CRAIG, TOM, MILLER, LEE D., AND CHRISTENSON, JERROLD W.	SPATIAL LAND-USE INVENTORY, MODELING, AND PROJECTION/DENVER, METROPOLITAN AREA, WITH INPUTS FROM EXISTING MAPS, AIRPHOTOS, AND LANDSAT IMAGERY, NASA TM 7 9710, GSFC, AUGUST 1978
L-123*		GEOLOGICAL STUDY OF THE EARTH FROM SPACE, TRANSLATED FROM RUSSIAN BY LEO KANNER ASSO., NASA TM-75551, JANUARY 1979
L-124	WILKINS, R. D., ET AL.	DATA SYSTEMS STUDY TO PROVIDE USER REQUIRED INFORMATION FOR STRATOSPHERIC POLLUTION MONITORING, GA. INST. TECH NASA REPORT 159077, JUNE 1979
L-125	WILSON, MICHAEL J., O'NEILL, PEGGY E., ESTES, JOHN E., AND DEUTSCH MORRIS	SATELLITE DETECTION OF OIL ON THE MARINE SURFACE, U.S. GEOLOGICAL SURVEY, JUNE 1979
L-126	COLWELL, ROBERT N.	AN INTEGRATED STUDY OF EARTH RESOURCES IN THE STATE OF CALIFORNIA USING REMOTE SENSING TECHNIQUES, SEMI-ANNUAL PROGRESS REPORT, SERIES 18, ISSUE 44, SPACE SCIENCES LABORATORY,
L-127	KREINS, EARL L , ED.	FOURTH NATIONAL AERONAUTICS AND SPACE ADMINISTRATION WEATHER AND CLIMATE PROGRAM SCIENCE REVIEW NASA CONFERENCE PUBLICATION 2076 GSFC, 24-25 JANUARY 1978

NUMBER	AUTHOR	TITLE
L-130	NASA	LAND RESOURCES RESEARCH PROGRAM FOR 1980-1990 (DRAFT) APRIL 1979
L-131	NASA	WATER RESOURCES/HYDROLOGY RESEARCH PROGRAM FOR 1980-1990, JULY 1978
L-132	JPL	ADVANCED MARINE INFORMATION DELIVERY SYSTEM (REVIEW COPY) FEBRUARY 1978
L-133	ECOSYSTEMS INTERNATIONAL	APPLICATIONS OF REMOTE SENSING TO WATER RESOURCES, NASA CR 150467, FOR MARSHALL SPACE FLIGHT CENTER, DECEMBER 1977
L-135	NASA	EARTH RESOURCES INFORMATION, STORAGE TRANSFORMATION, ANALYSIS, AND RETRIEVAL, (ERISTAR) FINAL REPORT, AUBURN U. ENGINEERING SYSTEMS DESIGN SUMMER FELLOWS, CR-61392, SEPTEMBER 1978
L-136	ECON INC	ECONOMIC BENEFITS OF IMPROVED INFORMATION ON WORLDWIDE CROP PRODUCTION, AN OPTIMAL DECISION MODEL, ECON INC., 76-243-1, FOR NASA, 15 MARCH 1977
L-137		JOINT PROGRAM FOR APPLICATIONS OF AEROSPACE TECHNOLOGY IN AGRICULT. (FIRST DRAFT), AG INITIATIVE, DECEMBER 1978
L-138	AEROJET ELECTRO SYSTEMS	MICROWAVE IMAGER SENSOR STUDY (MISS) VOLUME II-FINAL REPORT, AERO-JET ELECTRO SYSTEMS CO., CDRL A 002, REPORT 5217, FOR SAMSO (TR-76-119) JUNE 1976

NUMBER	AUTHOR	TITLE
L-139	NATIONAL ACADEMY OF SCIENCE	MICROWAVE REMOTE SENSING FROM SPACE FOR EARTH RESOURCE SURVEYS COMMISSION ON NATURAL RESOURCES, NATIONAL RESEARCH COUNCIL, NASA OCTOBER 1977
L-140	BURK, W. J., SCHMUGGE, T., AND PARKS, J. F.	COMPARISON OF 2.8 AND 21-CM MICROWAVE RADIOMETER OBSERVATIONS OVER SOILS WITH EMISSION MODEL CALCULATIONS, JOURNAL OF GEOPHYSICAL RESEARCH, VOL. 84, NO. C1, 20 JANUARY 1979
L-141	AEROJET ELECTRO SYSTEMS CO.	PASSIVE MICROWAVE SOUNDER (SSM/T) SYSTEM SUMMARY REPORT, CDRL ITEM A006, REPORT 5542, FOR USAF SPACE AND MISSILE SYSTEMS ORGANIZATION 23 NOVEMBER 1977
L-142		REMOTE DATA SENSING HANDBOOK, BASELINE ISSUE, COMPILED BY NEW TECHNOLOGY INC., FOR MSFC, JUNE 1977
L-143	ECOSYSTEMS INTERNATIONAL	WEATHER ASSESSMENT AND FORECASTING, NASA CR 150468, FOR MARSHALL SPACE FLIGHT CENTER, DECEMBER 1977
L-144	GSFC	SOIL MOISTURE PROGRAM PRESENTATION BY GSFC TO NASA HEADQUARTERS/ GSFC/JSC MEETING, 19 MAY 1977
L-145		PROCEEDINGS OF THE ELEVENTH INTERNATIONAL SYMPOSIUM ON REMOTE SENSING OF ENVIRONMENT, VOLUMES I AND II, ENVIRONMENTAL RESEARCH INSTIT. OF MICHIGAN, 25-29 APRIL 1977

NUMBER	AUTHOR	TITLE
L-146		PROCEEDINGS OF THE NASA EARTH RESOURCES SURVEY SYMPOSIUM, HOUSTON TEXAS, JUNE 1975., VOLUMES 1-A, 1-B, 1-C, 1-D, II-A, II-B, III, NASA TMX-58168, JSC-09930, LBJSC
L-147	NASA OSTA	OCEANIC PROCESSES SUBPROGRAM PLANS 1978/79
L-148	IDSO, SHERWOOD B., AND EHRLER, WILLIAM L.	ESTIMATING SOIL MOISTURE IN THE ROOT ZONE OF CROPS: A TECHNIQUE ADAPTABLE TO REMOTE SENSING, GEOPHYSICAL RESEARCH LETTERS, VOL. 3, NO. 1, JANUARY 1976
L-149	IDSO, SHERWOOD B., JACKSON, RAY D., AND REGINATO, ROBERT J.	DETECTION OF SOIL MOISTURE BY REMOTE SURVEILLANCE, AMERICAN SCIENTIST, VOL. 63, NO. 5, SEPTEMBER-OCTOBER 1975
L-150	IDSO, SHERWOOD B., JACKSON, RAY D., AND REGINATO, ROBERT J.	DETERMINING EMITTANCES FOR USE IN INFRARED THERMOMETRY A SIMPLE TECHNIQUE FOR EXPANDING THE UTILITY OF EXISTING METHODS JOURNAL OF APPLIED METEOROLOGY, VOL. 15, NO. 1, JANUARY 1976
L-151	IDSO, SHERWOOD B., JACKSON, RAY D., AND REGINATO, ROBERT J.	REMOTE SENSING OF CROP YIELDS SCIENCE VOL 196, 1 APRIL 1977
L-152	IDSO, SHERWOOD B.	THE DEPENDENCE OF BARE SOIL ALBEDO ON SOIL WATER CONTENT, JOURNAL OF APPLIED METEOROLOGY VOL. 14, NO. 1, FEBRUARY 1975
L-153	IDSO, S B., SCHMUGGE, T. J., JACKSON, R. D., AND REGINATO, R J	THE UTILITY OF SURFACE TEMPERATURE MEASUREMENTS FOR THE REMOTE SENSING OF SURFACE SOIL WATER STATUS, JOURNAL OF GEOPHYSICAL RESEARCH VOL. 80, NO 21, JULY 20, 1975

NUMBER	AUTHOR	TITLE
L-154	TUCKER, COMPTON J., AND MILLER, LEE D.	SOIL SPECTRA CONTRIBUTIONS TO GRASS CANOPY SPECTRAL REFLECTANCE PHOTOGRAMMETRIC ENGINEERING AND REMOTE SENSING, VOL. 43, NO. 6, JUNE 1977
L-155	WATSON, KENNETH	GEOLOGIC APPLICATIONS OF THERMAL INFRARED IMAGES, PROCEEDINGS OF THE IEEE, JANUARY, 1975
L-156	WESTIN, F.C., AND LEMME, G.D.	LANDSAT SPECTRAL SIGNATURES: STUDIES WITH SOIL ASSOCIATIONS AND VEGETATION, PHOTOGRAMMETRIC ENGINEERING AND REMOTE SENSING, VOL. 44, NO 3, MARCH 1978
L-160	NAGLIV, ROBERT & SLERRY, EDWIN	GLOBAL SERVICES SATELLITE CUCA 1995, VOLII, ENVIRONMENTAL & RESOURCE MANAGEMENT MEASUREMENT SERVICES, SEPT 30, 1978
L-162	ESKITE, JR., W. H., AND DERYCKE, R.	REPORT ON OCEAN DATA REQUIREMENTS OF THE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATAS MIGHT BE OBSERVED FROM SPACE, JANUARY 6, 1977
L-163		LETTER RUMSFELD TO FLECTHER, NOVEMBER 1976, MILITARY OPERATIONAL REQUIREMENTS FOR METEOROLOGICAL DATA FROM SATELLITES
L-164		UNOFFICIAL MILITARY OPERATIONAL OCEAN DATA MEASUREMENT NEEDS, DECEMBER, 1976
L-165	CSC	STORMSAT GROUND SYSTEM CONCEPT STUDY, CSC/SD-76/ 6088, NAS5-11999 NOVEMBER 1976

NUMBER	AUTHOR	TITLE
L-166	BOWMAN, A. P. , SHERRY, E. J. , AND MONTGOMERY, D. R.	FOLLOWON SEASAT USER NEEDS REPORT, JPL INTERNATIONAL REPORT 624-1, OCTOBER 6, 1976
L-167	GENERAL ELECTRIC SPACE DIVISION	DEFINITION OF THE TOTAL EARTH RESOURCES SYSTEM FOR THE SHUTTLE ERA (TERSE), VOLUMES 1 TO 8, NASA CONTRACT NAS9-13401, DRL NO. T-880
L-168	CAMBELL, W. J. , RAMSEIER, R. O. , WEEKS, W. F. , AND CLOERSEN, P.	AN INTEGRATED APPROACH TO THE REMOTE SENSING OF FLOATING ICE. PROCEEDINGS OF THE THIRD CANADIAN REMOTE SENSING SYMPOSIUM, EDMONTON, ALBERTA, 1975
L-169		UPPER ATMOSPHERE RESEARCH SATELLITE
L-170		SHUTTLE LIDAR. SEE HINKLEY FOR REF. TO SERDS REPORT
L-171		REMOTE MEASUREMENT OF POLLUTION, NASA SP 285, 1971
L-172	MACKIN, JR. , ET AL.	SCIENTIFIC QUESTIONS FOR THE EXPLORATION OF THE TERRESTRIAL PLANETS AND JUPITER, JPL/CIT TM 33- 410, OCTOBER 1, 1968
L-180	BIZZARRI, B	SATELLITE OBSERVATIONS AND SYNOPTIC APPLICATIONS, USE OF DATA FROM METEOROLOGICAL SATELLITES, ESA SP-143, SEPT 1979

NUMBER	AUTHOR	TITLE
L-181	ECKART, M	SYNOPTIC SCALE SYSTEMS AS VIEWED FROM SPACE, USE OF DATA FROM METEROROLOGICAL SATELLITES, ESA SP-143, SEPT 1979
L-182	STEINHORST G	SUBSYNOPTIC SCALE SYSTEMS AS VIEWED FROM SPACE, USE OF DATA FROM METEROROLOGICAL SATELLITES, ESA SP-143, SEPT 1979
L-183	BOWEN, R. A., ET AL	OPERATIONAL PRODUCTION OF CLOUD MOTION VECTORS (SATELLITE WINDS) FROM METEOSTAT IMAGE DATA, USE OF DATA FROM METEROROLOGICAL SATELLITES, ESA SP-143, SEPT 1979
L-184	MILLER, D. E.	QUANTITATIVE ANALYSIS OF RADIANCE DATA, USE OF DATA FROM METEROROLOGICAL SATELLITES, ESA SP-143, SEPT 1979
L-185	BENGTSSON, L.	USE OF SATELLITE DATA FOR NUMERICAL FORECASTING, USE OF DATA FROM METEROROLOGICAL SATELLITES, ESA SP-143, SEPT 1979
L-186	CAYLA, F. R.	EVALUATION OF QUANTITATIVE MEASUREMENTS FROM METEOSTAT, USE OF DATA FROM METEROROLOGICAL SATELLITES, ESA SP-143, SEPT 1979
L-187	BENGTSSON, L.	PROBLEMS OF USING SATELLITE INFORMATION IN NUMERICAL WEATHER PRE Diction, USE OF DATA FROM METEROROLOGICAL SATELLITES, ESA SP-143, SEPT 1979

NUMBER	AUTHOR	TITLE
L-188	TRACTON, M. S.	THE IMPACT OF SATELLITE SOUNDINGS UPON NUMERICAL ANALYSIS AND PREDICTIONS - THE NMC EXPERIENCE, USE OF DATA FROM METEOROLOGICAL SATELLITES, ESA SP-143, SEPT 1979
L-189	RASCHKE, E.	CLIMATE AND ATMOSPHERIC ENVIRONMENT, USE OF DATA FROM METEOROLOGICAL SATELLITES, ESA SP-143, SEPT 1979
L-190	FISCHER, H.	DETERMINATION OF ATMOSPHERIC TEMPERATURE PROFILES AND TURBIDITY FROM SATELLITE OBSERVATIONS, USE OF DATA FROM METEOROLOGICAL SATELLITES, ESA SP-143, SEPT 1979
L-191	RASCHKE, E.	CLIMATE RESEARCH WITH SATELLITE DATA, USE OF DATA FROM METEOROLOGICAL SATELLITES, ESA SP-143, SEPT 1979
L-192	OSTREM, G., ET AL	SNOW AND ICE MAPPING: NORWEGIAN EXAMPLES FOR RUN-OFF PREDICTION, USE OF DATA FROM METEOROLOGICAL SATELLITES, ESA SP-143, SEPT 1979
L-193	CHARNOCK, R.	APPLICATIONS TO OCEAN AREAS, USE OF DATA FROM METEOROLOGICAL SATELLITES, ESA SP-143, SEPT 1979
L-194	ALBUISSON, M , J. M. MNET AND G. NIHOUS	SEA SURFACE TEMPERATURE ANOMALY MAPPING USING THE NOAA SATELLITES, USE OF DATA FROM METEOROLOGICAL SATELLITES, ESA SP-143, SEPT 1979

NUMBER	AUTHOR	TITLE
L-195	ALLAN, T D.	MONITORING THE SEA SURFACE, USE OF DATA FROM METEROROLOGICAL SATELLITES, ESA SP-143, SEPT 1979
L-196	STURM, B.	BIOLOGICAL APPLICATIONS INCLUDING POLLUTION MONITORING, USE OF DATA FROM METEROROLOGICAL SATELLITES, ESA SP-143, SEPT 1979
L-197	NAGLER, ROBERT G., STEINBACHER, ROBERT H., MONTGOMERY, DONALD R.	SPECIAL PROGRAMS OFFICE SENSOR CAPABILITY HANDBOOK AND DATA SHEETS VOLUMES I AND II, JPL, NO. 624-2, MAY-JULY 1977
L-198	NEWTON, RICHARD WAYNE	MICROWAVE REMOTE SENSING AND ITS APPLICATION SOIL MOISTURE REMOTE SENSING CENTER, TEXAS A& M. TECHNICAL REPORT RSC-81, JANUARY 1977
L-199	COPELAND, G. E., AND A. R. BANDY	DETECTION OF AEROSOL POLLUTION BY ERTS, SYMPOSIUM ON SIGNIFICANT RESULTS OBTAINED FROM THE EARTH RESOURCES TECHNOLOGY SATELLITE-1, 1973, P 585.
U-001	ALGAZI, V. RALPH, GARY E. FORD, AND DOREEN MEYER	A NON-INTERACTIVE APPROACH TO LAND USE DETERMINATION, MACHINE PROCESSING OF REMOTELY SENSED DATA, JUNE 27-29, 1979, IEEE CATALOG NO. 79 CH1430-8 MPRSD
U-002	DIEZ, ET AL	A METHODOLOGY FOR A NATIONAL COVERAGE LAND USE STUDY BY COMPUTER, MACHINE PROCESSING OF REMOTELY SENSED DATA, JUNE 27-29, 1979, IEEE CATALOG NO. 79 CH1430-8 MPRSD, PP 142-149
U-003	FOSTEL, MANLEY, AND ORMSBY	THE USE OF LANDSAT MULTISPECTRAL DATA TO DERIVE LAND COVER INFORMATION FOR THE LOCATION AND QUALIFICATION, MACHINE PROCESSING OF REMOTELY SENSED DATA, JUNE 27-29, 1979

NUMBER	AUTHOR	TITLE
U-004	MCFARLAND, BARNEY, AND JOHANNSEN	COMPUTER AIDED ASSESSMENT OF REVEGETATION ON SURFACE MINE LAND UTILIZING COLOR INFRARED AERIAL PHOTOGRAPHY, MACHINE PROCESSING OF REMOTELY SENSED DATA, JUNE 27-29, 1979
U-005	HIELKAMA	APPLICATION PRINCIPAL COMPONENTS ANALYSIS ON LANDSAT MULTISPECTRAL DATA FOR STUDIES ON VEGETATION COVER UNDER DESERT CONDITIONS, MACHINE PROCESSING OF REMOTELY SENSED DATA, JUNE 27-29, 1979,
U-006	ANDERSON, HARDY, AND ROACH	A LAND-USE CLASSIFICATION SYSTEM FOR USE WITH REMOTE-SENSOR DATA, GEOLOGICAL SURVEY CIRCULAR 671, WASH., D C , 1972
U-007	COLVOCARESSES, ALDEN P.	WHAT IS MAPSAT, U.S. GEOL SURVEY, JULY 8, 1980, UNPUBLISHED PAPER
U-008	EODMS	PROGRAM ON EARTH OBSERVATION DATA MANAGEMENT SYSTEMS (EODMS) SUMMARY REPORT, WASHINGTON UNIVERSITY, FEB 17, 1976
U-009	JOYCE, A. , J. IVEY, AND G. BURNS	THE USE OF MSS DATA FOR DETECTING LAND COVER CHANGES, REPORT #184, NSTL-ERL, NATURAL RESOURCE ASVT. LOUISIANA, MISSISSIPPI, JUNE, 1980
U-010	SOLOMON, S I. , AND W. KLOHN	APPLICATION OF REMOTE SENSING TO ASSESSMENT OF WATER RESOURCES, 1978

NUMBER	AUTHOR	TITLE
U-011	ROLLER, NORMAN	WILDLIFE HABITAT MODELLING, ERIM, JULY, 1979
U-012	NO NAME	N. Y STATE DEMO PROJECT
U-013	GORDON, STEVEN	UTILIZING LANDSAT FOR CHANGE DETECTION: A CASE STUDY IN OHIO
U-014	NO NAME	CENSUS URBAN AREA APT REPORTS
U-015	NO NAME	B L M. RESOURCE INVENTORY ASVT REPORTS, SEPT., 1979
U-016	NASA	APPLICATION OF REMOTE SENSING TO THE CHESAPEAKE BAY REGION, VOL. 2- PROCEEDINGS, NASA CONFERENCE PUB #6, 1977
U-017	TOM, C., L. MILLER, AND J. CHRISTENSON	SPATIAL LAND-USE INVENTORY, MODELING, AND PROJECTION, NASA TECH. MEMORANDUM #79710, AUG., 1978
U-018	NASA	LANDSAT AND ANCILLARY DATA INPUTS TO AN AUTOMATED GEOGRAPHIC INFORMATION SYSTEM: APPLICATIONS FOR URBANIZED AREA DELINEATION, CONTRACT NAS 5-24350, TASK ASSIGNMENT 213, DEC , 1978
U-019	NO NAME	NAVAJO APT RESOURCE STUDIES

NUMBER	AUTHOR	TITLE
U-020	U. S. ARMY CORPS OF ENGINEERS	DETERMINATIONS OF LAND USE FROM LANDSAT IMAGERY: APPLICATIONS TO HYDROLOGIC MODELING, RESEARCH NOTE #7, HYDROLOGIC ENGINEERING CENTER, NOV. 1979
U-021	NASA	SYMPOSIUM ON SIGNIFICANT RESULTS OBTAINED FROM THE EARTH RESOURCES TECHNOLOGY SATELLITE, NASA SP- 327, MARCH, 1973
U-022	BORDEN, F. Y., D. N. THOMPSON, AND H. M. LACHOWSKI	IDENTIFICATION AND MAPPING OF COAL REFUSE BANKS AND OTHER TARGETS IN THE ANTHRACITE REGION, SYMPOSIUM ON SIGNIFICANT RESULTS FROM EARTH RESOURCES TECHNOLOGY SATELLITE, 1973
U-023	WIER, CHARLES W., ET AL	FRACTURE MAPPING AND STRIP MINE INVENTORY IN THE MIDWEST BY USING ERTS-1 IMAGERY, SYMPOSIUM ON SIGNIFICANT RESULTS FROM EARTH RESOURCES TECHNOLOGY SATELLITE, 1973
U-024	CHASE, PHILLIP E., AND WAYNE PETTYJOHN	ERTS-1 INVESTIGATION OF ECOLOGICAL EFFECTS OF STRIP MINING IN EASTERN OHIO, SYMPOSIUM ON SIGNIFICANT RESULTS OBTAINED FROM ERTS
U-025	ALEXANDER, S. S., J. DEIN, AND D. P. GOLD	THE USE OF ERTS-1 MSS DATA FOR MAPPING STRIP MINES AND ACID MINE DRAINAGE IN PENNSYLVANIA, SYMPOSIUM ON SIGNIFICANT RESULTS FROM ERTS
U-026	GILBERTSON, BRIAN	MONITORING VEGETATION COVER ON MINE DUMPS WITH ERTS-1 IMAGERY. SOME INITIAL RESULTS, SYMPOSIUM ON SIGNIFICANT RESULTS FROM ERTS, 79

NUMBER	AUTHOR	TITLE
U-028	NASA	NASA EARTH RESOURCES SURVEY SYMPOSIUM, HOUSTON, TEXAS, TM X-58168, JSC-09930, JUNE, 1975
U-029	FRENTRESS, CARL D., AND ROY G. FRYE	WILDLIFE MANAGEMENT BY HABITAT UNITS- A PRELIMINARY PLAN OF ACTION, NASA EARTH RESOURCES SURVEY SYMPOSIUM, 1975
U-030	BARNES, CHARLES M., AND FRANK C. FORSBERG	AN OVERVIEW OF THE DEVELOPMENT OF REMOTE SENSING TECHNIQUES FOR THE SCREWORM ERADICATION PROGRAM, NASA EARTH RESOURCES SURVEY SYMPOSIUM JUNE 1975
U-031	ARP, GERALD K.	THE RATIONALE FOR ATTEMPTING TO DEFINE SALT MARSH MOSQUITO- BREEDING AREAS IN GALVESTON COUNTY BY REMOTE SENSING THE ASSOCIATED VEGETATION, NASA EARTH RESOURCES SURVEY SYMPOSIUM*
U-032	RUSH, MARJORIE, AND SALLY VERNON	PREDICTION OF HEALTH LEVELS BY REMOTE SENSING, NASA EARTH RESOURCES SURVEY SYMPOSIUM, JUNE 1975
U-033	AMATO, ROGER V , ET AL	APPLICATION OF EREP, LANDSAT, AND AIRCRAFT IMAGE DATA TO ENVIRONMENTAL PROBLEMS RELATED TO COAL MINING, NASA EARTH RESOURCES SURVEY SYMPOSIUM, JUNE 1975
U-034	ANDERSON, ARTHUR T., DOROTHY T. SCHULTZ, AND NED BUCHMAN	LANDSAT INVENTORY OF SURFACE-MINED AREAS USING EXTENDIBLE DIGITAL TECHNIQUES, NASA EARTH RESOURCES SURVEY SYMPOSIUM, JUNE 1975

NUMBER	AUTHOR	TITLE
Z-001	GROSS, GRANT M.	OCEANOGRAPHY. A VIEW OF EARTH, PRENTICE HALL, 1977
Z-002	JSC/NASA/ERL	COASTAL AND MARINE ENVIRONMENTAL REMOTE SENSING TECHNIQUES, REPORT NO. 155, DEC. 1975
Z-003	ERNST-DOTTAVIA, C. L., R. HOFFER, AND R. MROCYNSKI	SPECTRAL CHARACTERISTICS OF WETLAND HABITATS, PHOTOGRAMMETRIC ENGINEERING AND REMOTE SENSING, VOL. XLVII, NO. 2, FEB. 1981, PP 223-229
Z-004	DEUTSCH AND ESTES	LANDSAT DETECTION OF OIL FROM NATURAL SEEPS, PHOTOGRAMMETRIC ENGINEERING, VOL. XLVI, NO. 10, OCT 1980, PP 1313-1323
Z-005	JOHNSON, ROBERT W.	REMOTE SENSING AND SPECTRAL ANALYSIS OF PLUMES FROM OCEAN DUMPING IN THE NEW YORK BIGHT APEX, REMOTE SENSING OF THE ENVIRONMENT, 1980 PP 197-209
Z-006	ANDERSON, RICHARD R., VIRGINIA CARTER, AND JOHN MCGINNESS	MAPPING ATLANTIC COASTAL MARSHLANDS, MARYLAND, GEORGIA, USING ERTS-1 IMAGERY, SYMPOSIUM ON SIGNIFICANT RESULTS OBTAINED FROM ERTS, VOL 1 NASA SP-327, MARCH 1973, PP 603-614
Z-007	KLEMAS, V , F. DAIBER, AND D. BARTLETT	IDENTIFICATION OF MARSH VEGETATION AND COASTAL LAND USE IN ERTS-1 IMAGERY, SYMPOSIUM ON SIGNIFICANT RESULTS OBTAINED FROM ERTS, VOL. 1 NASA SP-327, MARCH 1973, PP 615-628
Z-008	MAIRS, ROBERT J, ET AL.	APPLICATION OF ERTS-1 DATA TO THE PROTECTION AND MANAGEMENT OF NEW JERSEY'S COASTAL ENVIRONMENT, SYMPOSIUM ON SIGNIFICANT RESULTS OBTAINED FROM ERTS, VOL. I, NASA SP-327, MARCH 1973, PP 629-634

NUMBER	AUTHOR	TITLE
Z-009	WEZERNAK, C. T., AND N. ROLLER	MONITORING OCEAN DUMPING WITH ERTS-1 DATA, SYMPOSIUM ON SIGNIFICANT RESULTS OBTAINED FROM ERTS, VOL. I, NASA SP-327, MARCH 1973, PP 635-50
Z-010	ANDERSON, RICHARD R., VIRGINIA CARTER, AND JOHN MCGINNESS	APPLICATIONS OF ERTS DATA TO COASTAL WETLAND ECOLOGY WITH SPECIAL REFERENCE TO PLANT COMMUNITY MAPPING AND TYPING AND IMPACT OF MAN, THIRDERTS SYMPOSIUM, VOL. 1, DEC 1973, PP 1225
Z-011	KLEMAS, V., ET AL	INVENTORIES OF DELAWARE'S COASTAL VEGETATION AND LAND-USE UTILIZING DIGITAL PROCESSING OF ERTS-1 IMAGERY, THIRD ERTS SYMPOSIUM, VOL. 1, DEC. 1973, PP 1243-1256
Z-012	CARTMILL, ROBERT H	EVALUATION OF REMOTE SENSING AND AUTOMATIC DATA TECHNIQUES FOR CHARACTERIZATION OF WETLANDS, THIRD ERTS SYMPOSIUM, VOL. 1, DEC. 1973 PP-1257-1278
Z-013	MAUL, GEORGE A., AND HOWARD R. GORDON	RELATIONSHIPS BETWEEN ERTS RADIANCES AND GRADIENTS ACROSS OCEANIC FRONTS, THIRD ERTS SYMPOSIUM, VOL. 1, DEC 1973, PP 1279-1308
Z-014	APEL, JOHN R., AND ROBERT L. CHARNELL	OCEAN INTERNAL WAVES OFF THE NORTH AMERICAN AND AFRICAN COASTS FROM ERTS-1, THIRD ERTS SYMPOSIUM, VOL 1, DEC 1973, PP 1309-1316
Z-015	STEVENSON, WILLIAM H., ET AL.	A REVIEW OF INITIAL INVESTIGATIONS TO UTILIZE ERTS-1 DATA IN DETERMINING THE AVAILABILITY AND DISTRIBUTION OF LIVING MARINE RESOURCES, THIRD ERTS SYMPOSIUM, VOL. I, DEC 1973, PP 1317-1332

NUMBER	AUTHOR	TITLE
Z-024	WORK, EDWARD A., JR., DAVID S. GILMER, AND A. T. KLETT	UTILITY OF ERTS FOR MONITORING THE BREEDING HABITAT OF MIGRATORY WATERFOWL, THIRD ERTS SYMPOSIUM, VOL. I, DEC 1973, P 1671
Z-025	YOST, EDWARD, ET AL.	AN INTERDISCIPLINARY STUDY OF THE ESTUARINE AND COASTAL OCEANOGRAPHY OF BLOCK ISLAND SOUND AND ADJACENT NEW YORK COASTAL WATERS, THIRD ERTS SYMPOSIUM, VOL. I, DEC 1973, P 1607
Z-026	SCHUBERT, J. S., AND N. H. MACLEOD	DIGITAL ANALYSIS OF POTOMAC RIVER BASIN ERTS IMAGERY. SEDIMENTATION LEVELS AT THE POTOMAC-ANACOSTIA CONFLUENCE AND STRIP MINING IN ALLEGHENY COUNTY, MD. SYMPOSIUM ON SIGNIFICANT RESULTS OBTAINED FROM ERTS, MARCH 1973,
Z-027	MARUYASU, TAKAKAZU	A STUDY ON THE EROSION OF NIGATA BEACH FROM ERTS-A IMAGERY, SYMPOSIUM ON SIGNIFICANT RESULTS OBTAINED FROM ERTS, MARCH 1973, P 665
Z-028	YARGER, HAROLD L., ET AL.	WATER TURBIDITY DETECTION USING ERTS-1 IMAGERY, SYMPOSIUM ON SIGNIFICANT RESULTS FROM ERTS, MARCH 1973, P 651

NUMBER	AUTHOR	TITLE
Z-016	POLCYN, FABIAN, AND DAVID R. LYZENGA	UPDATING COASTAL AND NAVIGATIONAL CHARTS USING ERTS-1 DATA, THIRD ERTS SYMPOSIUM, VOL I, DEC. 1973, PP 1333-1346
Z-017	WILLIAMSON, A. N., AND W. E. GRABAU	SEDIMENT CONCENTRATION MAPPING IN TIDAL ESTUARIES, THIRD ERTS SYMPOSIUM, VOL. I, DEC. 1973, PP 1347- 1386
Z-018	KLEMAS, V., ET AL.	MONITORING COASTAL WATER PROPERTIES AND CURRENT CIRCULATION WITH ERTS-1, THIRD ERTS SYMPOSIUM, VOL I, DEC 1973, PP 1387-1412
Z-019	PIRIE, DOUGLAS M., AND DAVID D. STELLER	CALIFORNIA COASTAL PROCESS STUDY, THIRD ERTS SYMPOSIUM, VOL I, DEC 1973, PP 1413-1436
Z-020	DEMATHIEU, PIERRE G., AND FERNAND H. VERGER	UTILIZATION OF ERTS-1 DATA FOR THE STUDY OF THE FRENCH ATLANTIC LITTORAL, THIRD ERTS SYMPOSIUM, VOL. 1, DEC 1973, PP 1447-1450
Z-021	WRIGHT, F. F., ET AL.	ERTS IMAGERY APPLIED TO ALASKAN COASTAL PROBLEMS, THIRD ERTS SYMPOSIUM, VOL. 1, DEC 1973, PP 1551- 1552
Z-022	BARNES, JAMES C., AND CLINTON J. BOWLEY	MONITORING ARCTIC SEA ICE USING ERTS IMAGERY, THIRD ERTS SYMPOSIUM VOL. 1, DEC 1973, PP 1453- 1466
Z-023	HULT, JOHN L., AND NEIL C. OSTRANDER	APPLICABILITY OF ERTS TO ANTARCTIC ICEBERG RESOURCES, THIRD ERTS SYMPOSIUM, VOL. 1, DEC 1973, P- 1467